



FILE NO.

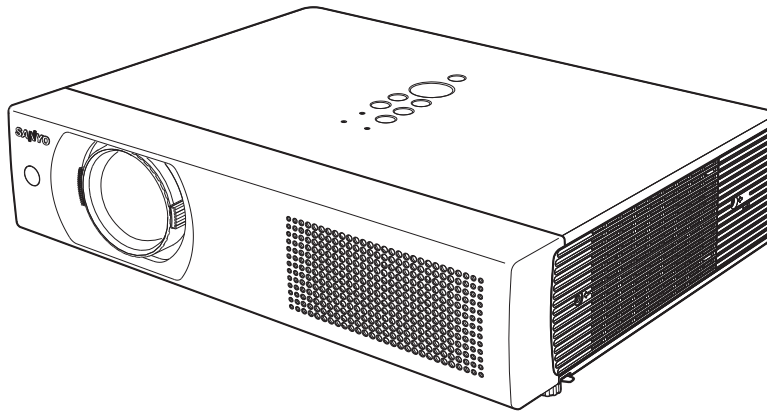
SERVICE MANUAL

Multimedia Projector

Model No. **PLC-XU106**

U.S.A, Canada,
Europe, U.K, Asia

Original Version



Chassis No. KB8-XU10600

Match the Chassis No. on the rating label of the projector with the Chassis No. in the Service Manual.
If the Chassis No. in the Original Service Manual does not match the projector's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to the servicing.

PRODUCT CODE

PLC-XU106

1 122 501 00 (KB8AC)

1 122 502 00 (LB8AC)

1 122 502 02 (LB8CC)

REFERENCE NO. SM5111145-00


Contents

SERVICE MANUAL	1	No Picture	59
Contents	2	No Sound.....	60
Safety Instructions	3	Control Port Functions.....	61
Safety Precautions.....	3	Scaler I/O Port Functions (PW190)	61
Product Safety Notice	3	IC Block Diagrams.....	62
Service Personnel Warning	3	Electrical Parts List.....	66
Specifications	4	Electrical Parts Location	67
Circuit Protections	5	Electrical Parts List.....	68
Thermal switch	5	Mechanical Parts List	88
Lamp cover switch	5	Cabinet Parts Location	88
Fuse.....	5	Optical Parts Location	89
Warning temperature and power failure protection.....	6	Mechanical Parts List	93
Maintenance	7	Diagrams & Drawings	A1
Cleaning the Filter	7	Parts description and reading in schematic diagram...	A2
Resetting the Filter Counter.....	7	Schematic Diagrams	A3
Attaching the Lens Cap	8	Printed Wiring Board Diagrams	A11
Cleaning the Projection Lens.....	8	Pin description of diode, transistor and IC.....	A15
Cleaning the Projector Cabinet.....	8	Note on Soldering.....	A16
Lamp Replacement	9		
Resetting the Lamp Counter.....	10		
How to check Lamp Used Time	10		
Cleaning	11		
Security Function Notice.....	12		
Security Function Disable	12		
Mechanical Disassembly	13		
Optical Parts Disassembly.....	17		
Adjustments.....	23		
Adjustments after Parts Replacement	23		
Optical Adjustments.....	24		
Contrast adjustment.....	24		
Integrator lens adjustment	25		
Relay lens-Out adjustment	26		
Electrical Adjustments	27		
Service Adjustment Menu Operation.....	27		
Memory IC (IC1371) Replacement.....	27		
Circuit Adjustments.....	28		
Test Points and Locations	32		
Service Adjustment Data Table.....	33		
Chassis Block Diagrams.....	50		
Chassis over view	50		
System control.....	51		
Lamp control.....	52		
Audio circuit	53		
Power supply & protection circuit.....	54		
Fan control circuit	55		
IIC bus control circuit	56		
Troubleshooting	57		
Indicators and Projector Condition	57		
No Power	58		

Safety Instructions

Safety Precautions

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.


3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing. Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.15" x 3.07" x 10.14" (334 mm x 78 mm x 257.5mm) (Not including protrusions)
Net Weight	7.50 lbs (3.4 kg)
Feet Adjustment	0° to 8.9°

Panel Resolution

LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
SD/HDTV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz-100 kHz, V-sync. 50-100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Throw Distance	3.1' (0.93m) - 37.6' (11.47m)
Projection Lens	F1.7-2.5 lens with f=19.2 mm-30.2 mm with manual zoom and focus
Projection Lamp	275 W

Interface

Video Input Jack	RCA Type x 1
S-video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer 1(Component) /	
Computer 2 Audio Input Jacks	Mini Jack (stereo) x 2
Computer In 1/Component Input Terminal	Mini D-sub 15 pin x 1
Monitor Output Terminal	Mini D-sub 15 pin x 1
Computer In 2 Input Terminal	Mini D-sub 15 pin x 1
Control Port Connector	D-sub 9 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (variable)
LAN Connection Terminal	RJ45

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1"(28 mm)

Power

Voltage and Power Consumption	AC 100–120 V (4.0A Max. Ampere), 50/60 Hz (The U.S.A and Canada)
	AC 200–240 V (2.1A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41°F–95°F (5 °C–35 °C)
Storage Temperature	14°F–140°F (-10°C–60 °C)

Remote Control

Battery	AAA or LR03 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30°
Dimensions	2.0" (W) x 0.7" (H) x 4.3" (D) (52 mm x 18 mm x 110 mm)
Net Weight	2.37 oz (67 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100°C, the thermal switch opens to stop the operation of the power supply circuit.

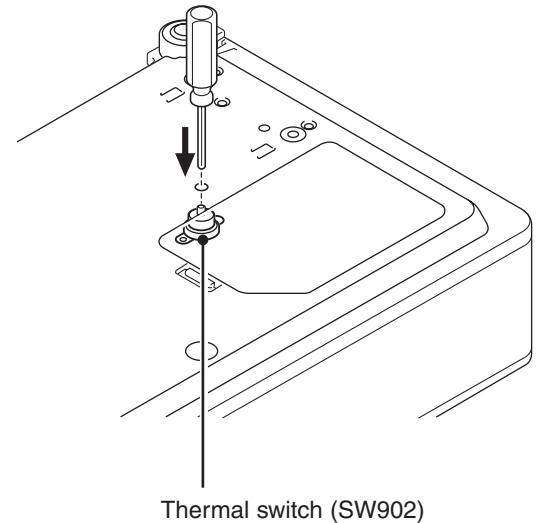
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Insert the sharp tool like a screwdriver into a hole on the cabinet from the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

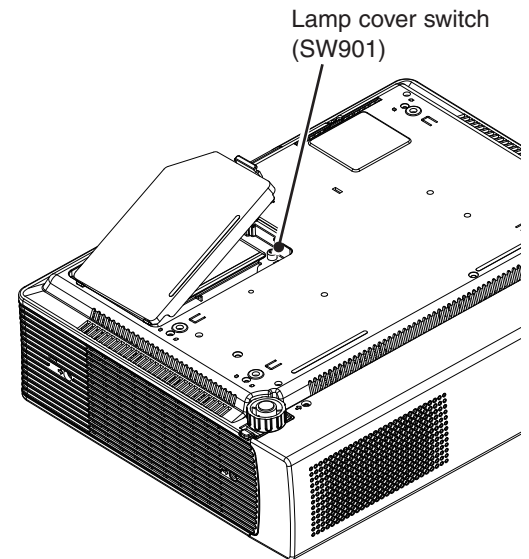
CAUTION:

Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Fuse

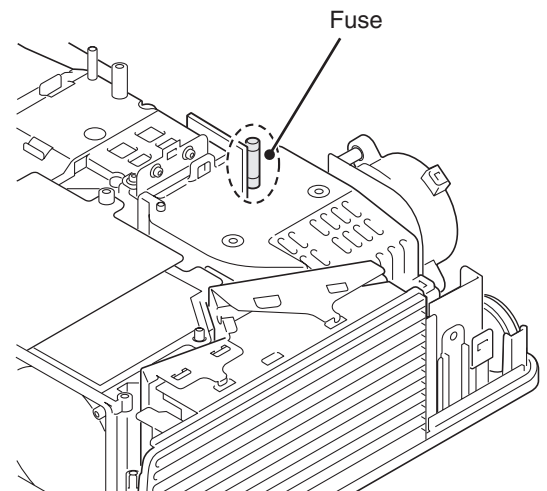
A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

Fuse Part No.: 323 025 1204
TYPE 8A 250V FUSE
LITTLE FUSE INC. TYPE 21500.8

How to replace the fuse

1. The fuse is placed on the filter board under the main board. Remove the cabinet top and main board.
2. Take the fuse off, and replace the new one with the specified type.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

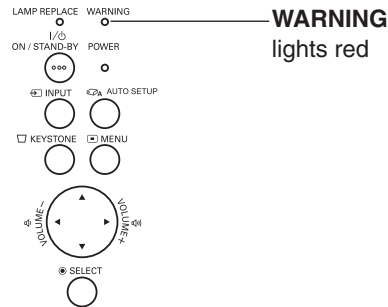
Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, it may defect the cooling fans or power supply circuits.

Top Control



CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Maintenance

Cleaning the Filter

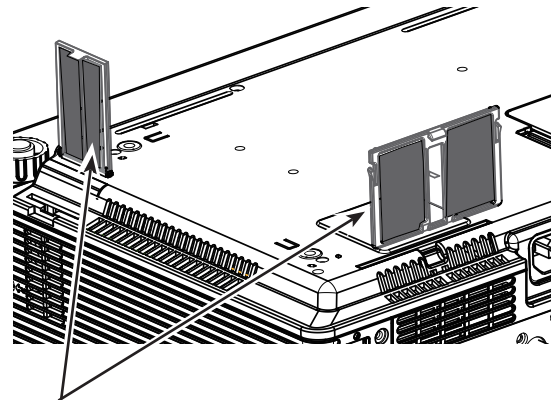
Filters prevent dust from accumulating on the optical elements inside the projector. Should the filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon appears on the screen, clean the filters immediately. Clean the filter by following the steps below.

- 1 Turn off the projector, and unplug the AC power cord from the AC outlet.
- 2 Turn the projector over and remove the filters by pulling the latches upward.
- 3 Gently clean the filters by using a brush or rinse them softly.
- 4 When rinsing the filters, dry them well. Replace the filters properly. Make sure that the filters are fully inserted to the projector.



CAUTION

Do not operate the projector with the filters removed. Dust may accumulate on the optical elements degrading picture quality. Do not put anything into the air vents. Doing so may result in malfunction of the projector.



Filters

Pull up and remove.

✓Note:

- When reinserting this filter, be sure that the slit part is facing the outer side.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

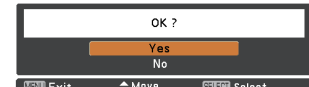
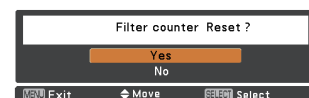
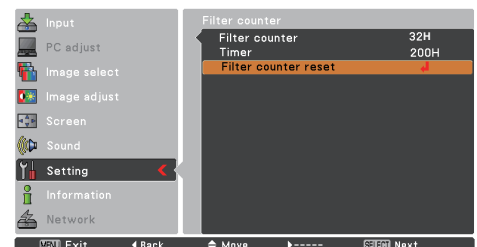
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

Be sure to reset the Filter counter after cleaning or replacing the filter.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.
- 3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



Filter counter Reset? appears.

Select **Yes**, then another confirmation box appears.

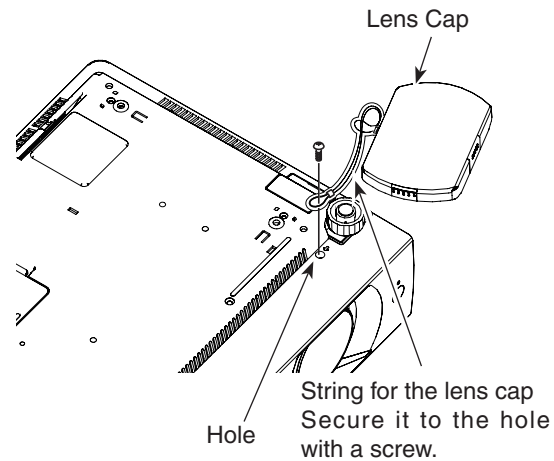
Select **Yes** again to reset the Filter counter.

Attaching the Lens Cap

When moving this projector or while not using it over an extended period of time, replace the lens cap.

Attach the lens cap according to the following procedures.

- 1 Pass the string through a hole of the lens cap.
- 2 Turn over the projector and remove the screw with a screwdriver.
- 3 Attach the string with lens cap to a hole at the bottom of the projector and secure it with a screw.

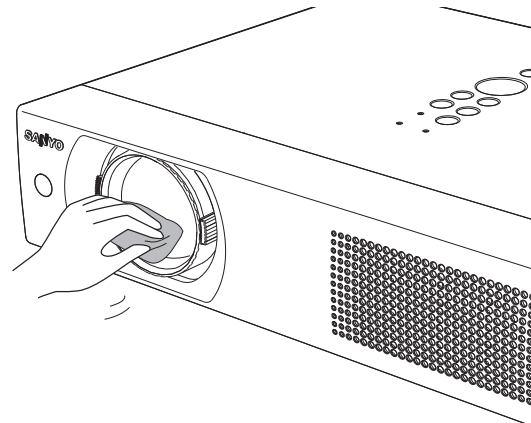


Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

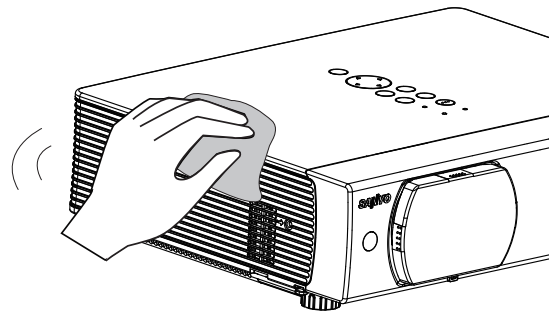


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



CAUTION

Do not use any flammable solvents or air sprays on the projector and in its vicinity. The explosion or fire hazard may occur even after the AC power cord is unplugged because the temperature inside the projector is extremely high due to the lamps. In addition, there is a risk that the internal parts may be damaged not only by the flammable air spray but also by the cold air.

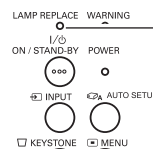
Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.



WARNING:
TURN OFF THE UV LAMP BEFORE OPEN-
ING THE LAMP COVER

Top Control



**LAMP REPLACE
indicator**

Lamp replacement



Lamp replacement icon

✓Note:

- The Lamp replacement icon will not appear when the Display function is set to "Off", during "Freeze", or "No show".



CAUTION

Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.



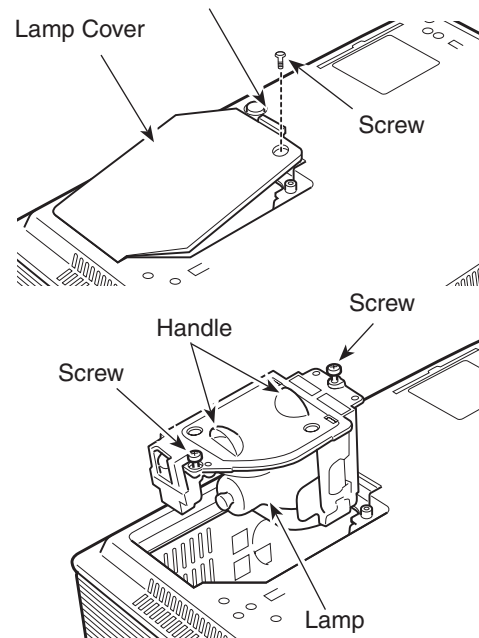
CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

- 1 Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2 Remove the one (1) screw on the lamp cover and open the lamp cover.
- 3 Loosen the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
- 4 Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover.
- 5 Connect the AC power cord to the projector and turn on the projector.
- 6 Reset the lamp counter.
See "Resetting the Lamp Counter" on the next page.

Press here and pull upward.



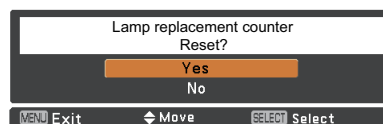
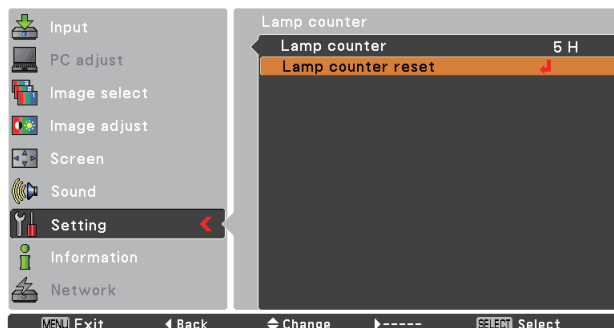
ORDER REPLACEMENT LAMP

Type No. POA-LMP111
Service Parts No. 610 333 9740

Resetting the Lamp Counter

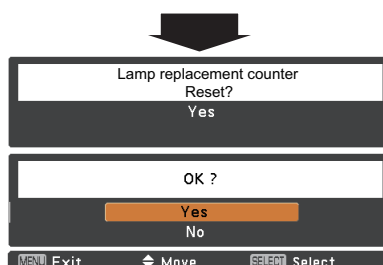
Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Setting** and then press the Point ► or the SELECT button.
- 2 Use the Point ▲▼ buttons to select **Lamp counter** and then press the SELECT button. Use the Point ▲▼ buttons to select **Lamp counter reset** and then press SELECT button. **Lamp replacement counter Reset?** appears. Select **Yes** to continue.
- 3 Another confirmation dialog box appears, select **Yes** to reset the Lamp counter.



Lamp replacement counter Reset? appears.

Select **Yes**, then another confirmation box appears.



Select **Yes** again to reset the Lamp counter.

✓Note:

- Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression,

Total lamp used time (Corresponding value) = $T_{eco} + (T_{normal} \times 1.2) + (T_{high} \times 1.5)$

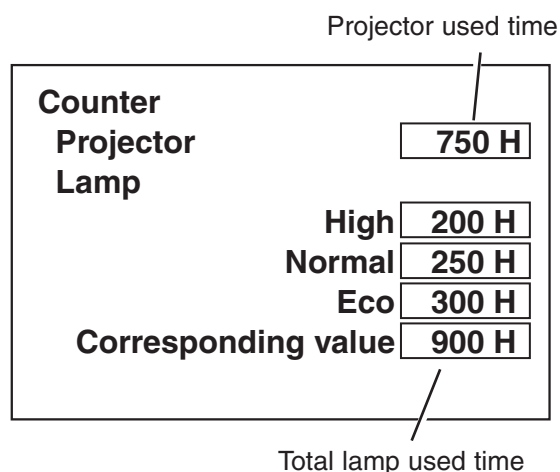
T_{eco} : used time in the Eco mode

T_{normal} : used time in the Normal mode

T_{high} : used time in the High mode

You can check the lamp used time following to the below procedure.

- 1 Press and hold the **ON/STAND-BY** button on the projector for more than 20 seconds.
- 2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Security Function Notice

Security Function Disable

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. Initial code: "4321"

Resetting procedure

1. Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button, connect the AC power cord into an AC outlet again.
3. Keep pressing the **SELECT** button and then press the **ON/STAND-BY** button.
4. Release the **ON STAND-BY** button first and then release the **SELECT** button.
 - The PIN code lock and Logo PIN code lock will be reset as the initial PIN code at the factory and the key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.


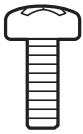
Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.

Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1 Cabinet Top, Front, R/C Board removal

1. Remove 5 screws A(T3x10) to remove the cabinet top.
2. Remove 2 screws B(M2.5x6) and 2 screws C(T3x8) to the Cabinet front.
3. Remove screw D(M2.5x6) and 2 screws E(T2x6) to remove the Lens spacer sheet and Front shield.
4. Remove screw F(T2x6) to remove the R/C Board.

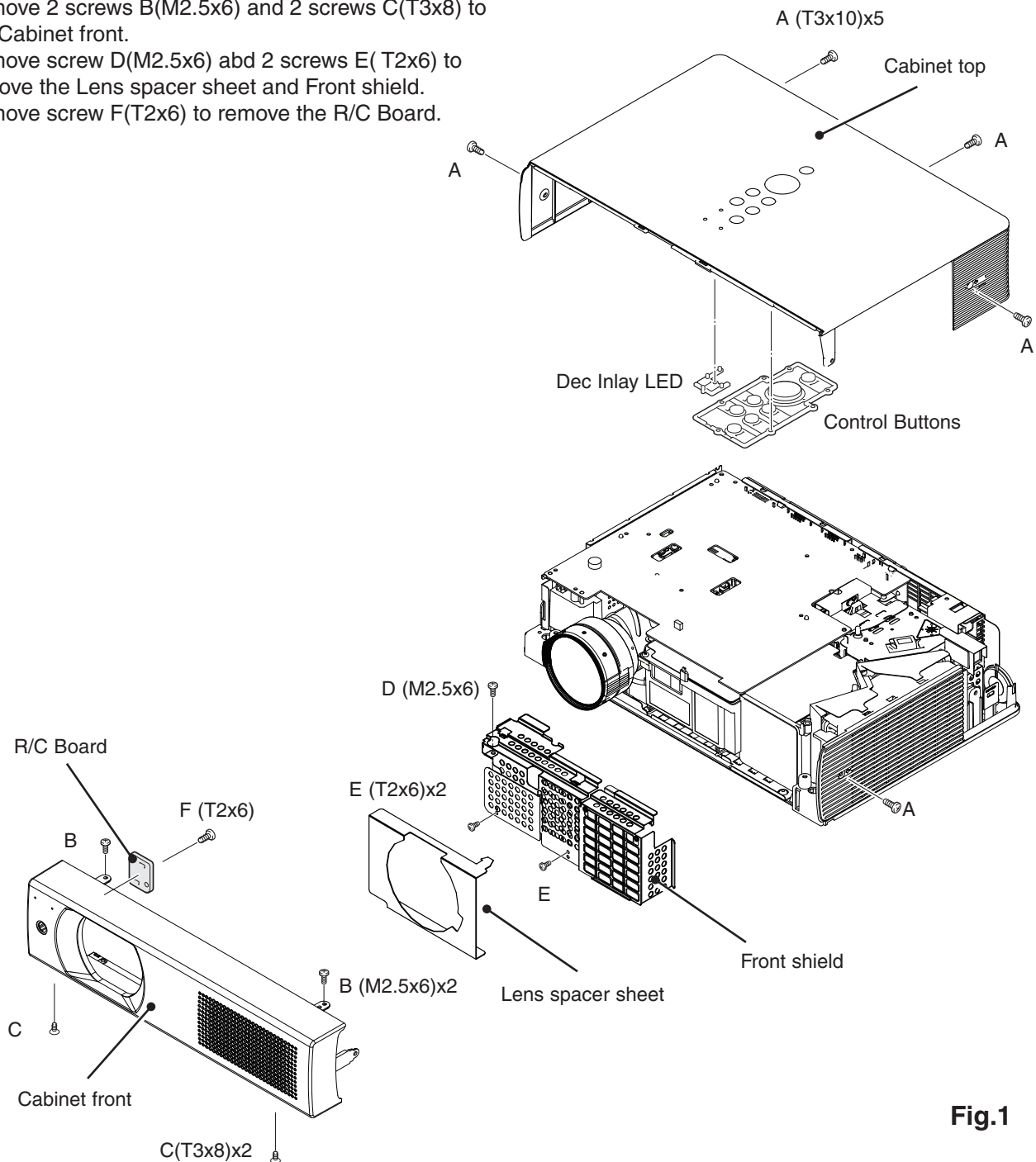


Fig.1

2 Main Board, AV Board, Rear Panel and Fans removal

1. Remove screw A (M2.5x6) to remove the Lamp top shield.
2. Remove 4 screws B (M2.5x6) to remove the Main board.
3. Release 4 hooks to remove the Rear panel and remove 2 screws C (T3x6) to remove the Rear panel and AV board.
4. Remove 2 screws D (T3x6) to remove fans (FN901, FN902).

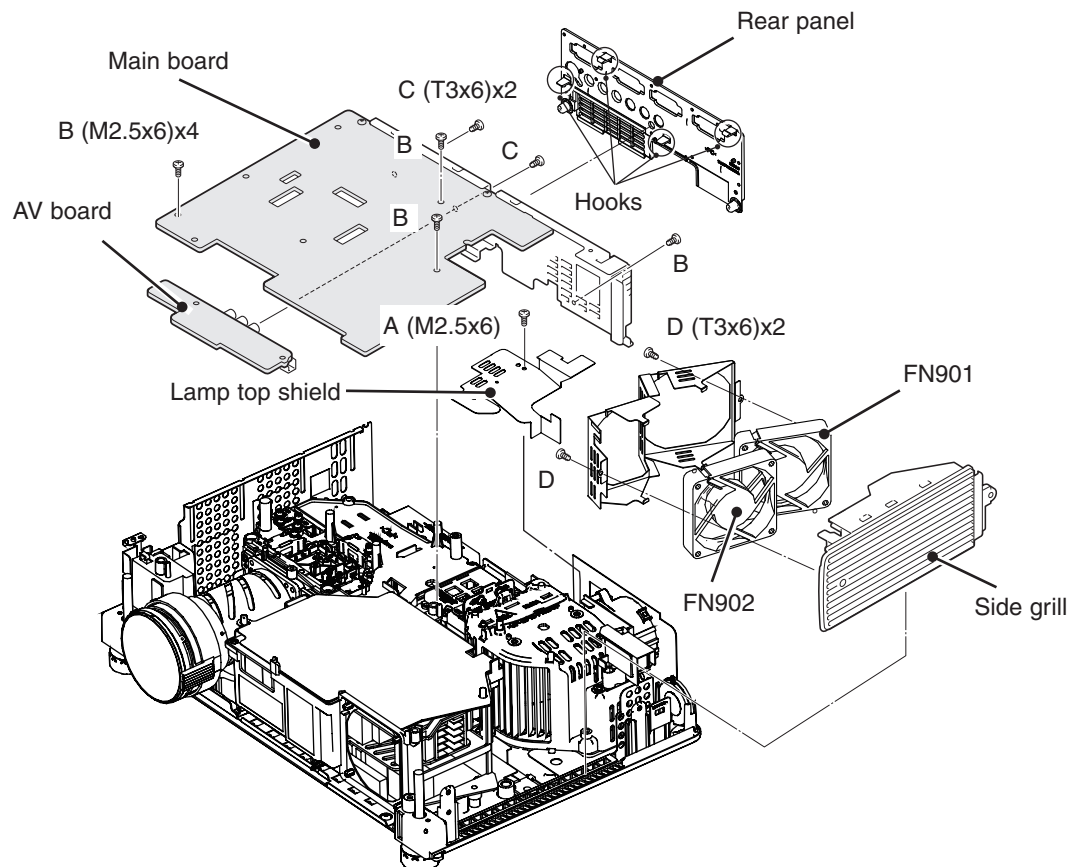


Fig.2

3 Fan (FN903) removal

1. Remove screw A (M3x8) to disconnect the lamp ballast socket.
2. Remove screw B (T3x8) to remove fan (FN903).

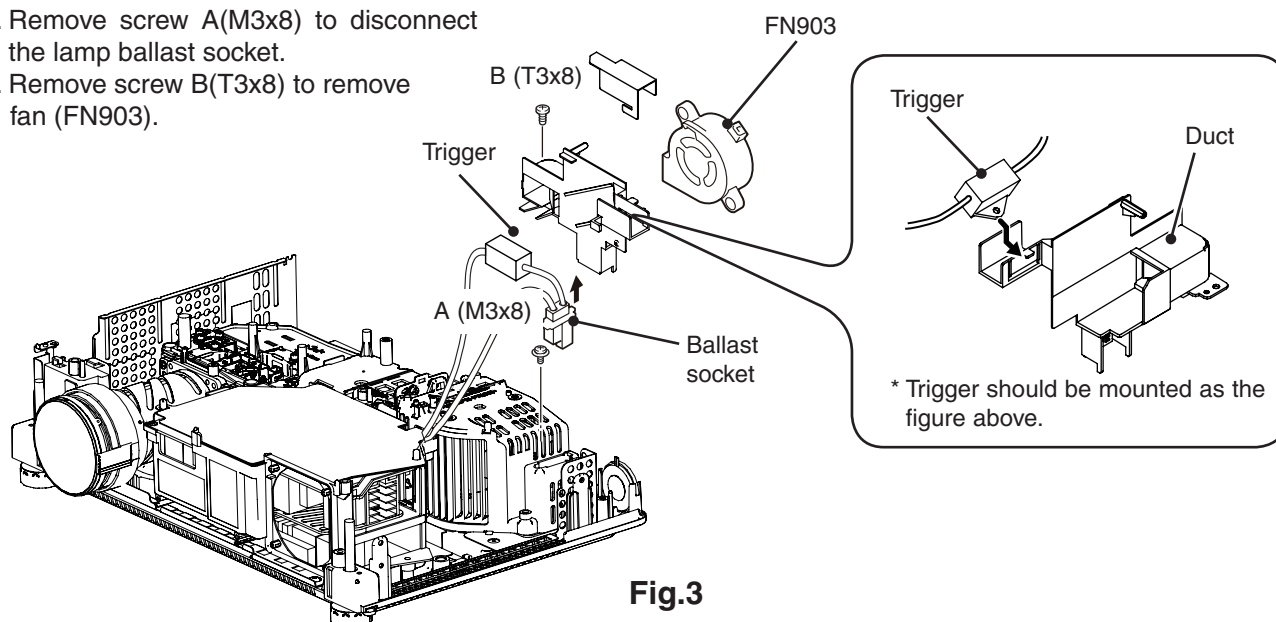


Fig.3

4 Optical unit, Temp., Line Filter board, Fans and Speaker removal

1. Remove 5 screws A(T3x5) to remove the the Optical unit.
2. Remove 3 screws B (T3x8) and 4 hooks on the duct to remove the Duct. top and bottom.
3. Remove screw C(T3x8) to remove the fan(FN904).
4. Remove 2 screws E(T3x6) and screw F(T3x6) to remove the Line filter board and Temp. board.
5. Remove fans (FN905, FN907) and speaker (SP901).

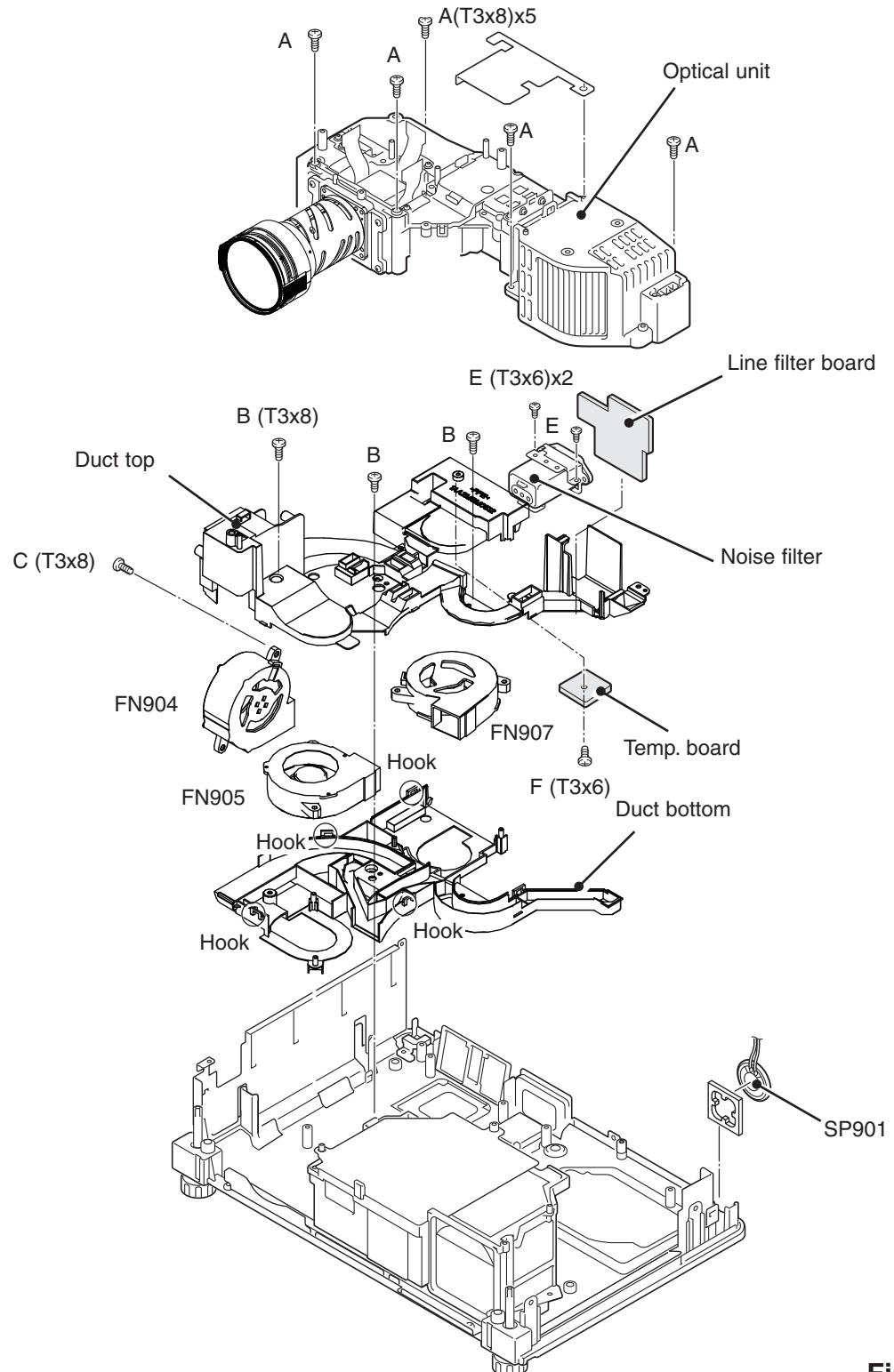


Fig.4

5 Power, Ballast, Lamp Cover Sw Board, Thermal Sw(SW902) removal

1. Remove two Isolation sheets.
2. Remove 3 screws A(T3x6) and 2 screws B(T3x8) to remove the Power board holder.
3. Remove screw C(T3x6) to remove the Power board.
4. Remove 2 screws D(T3x6) to remove the Ballast board.
5. Remove screw E(T3x6) to remove the Lamp cover switch board and remove screw F(T3x6) to remove the thermal switch (SW902).

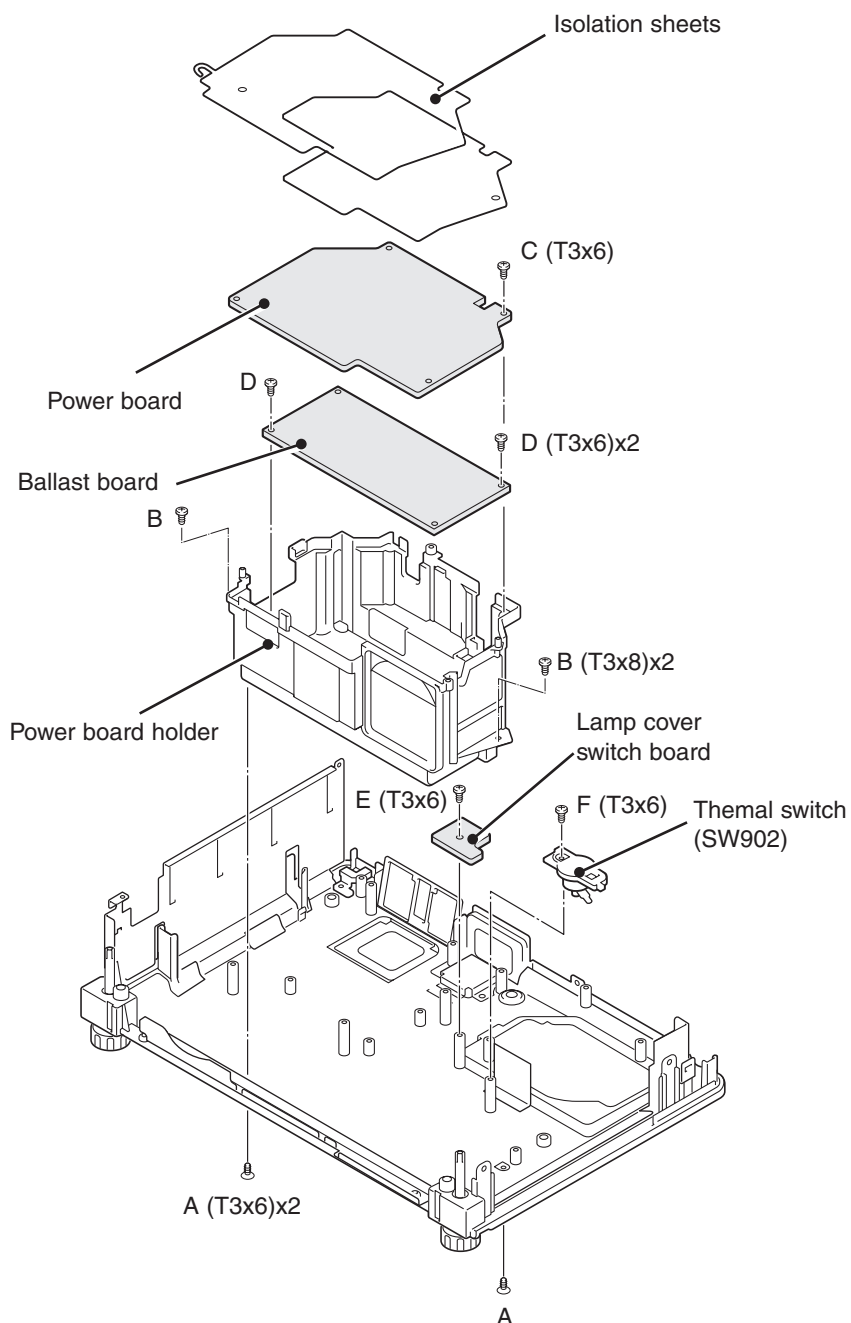


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassembly”.

Disassembly requires a 2.0mm hex wrench.

1 Projection lens disassembly

Note: The optical unit should be removed from the cabinet bottom before removing the projection lens.

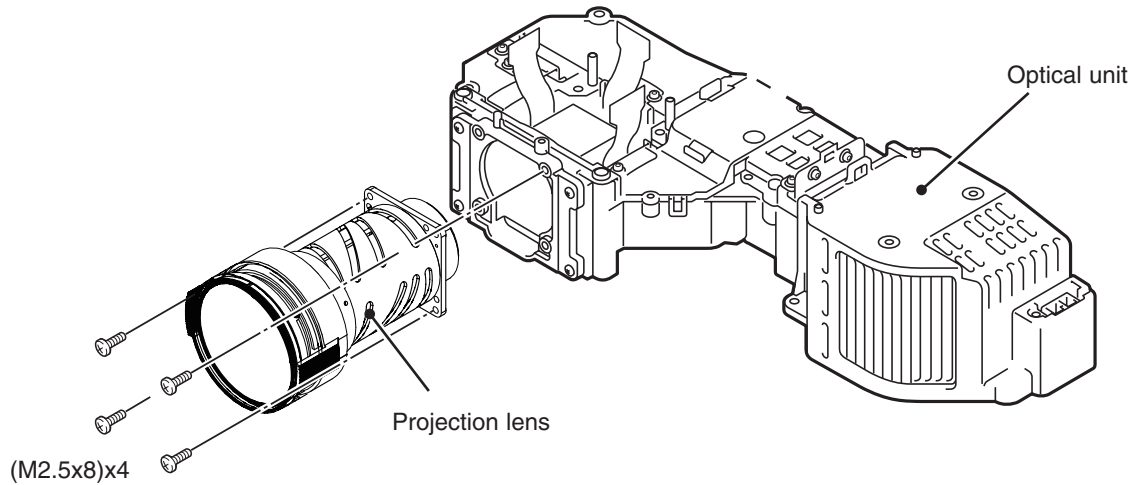


Fig.1

2 Integrator lens-in disassembly

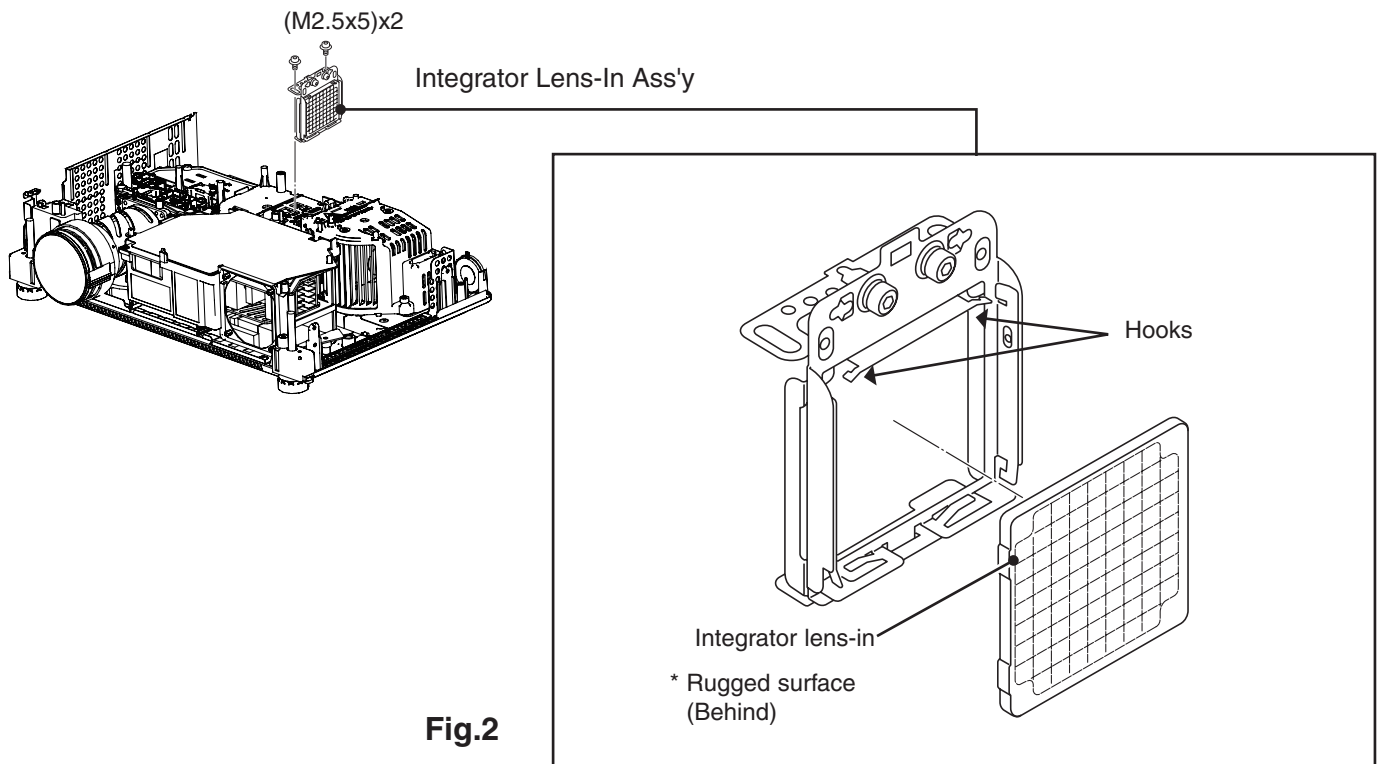


Fig.2

3 Relay lens disassembly

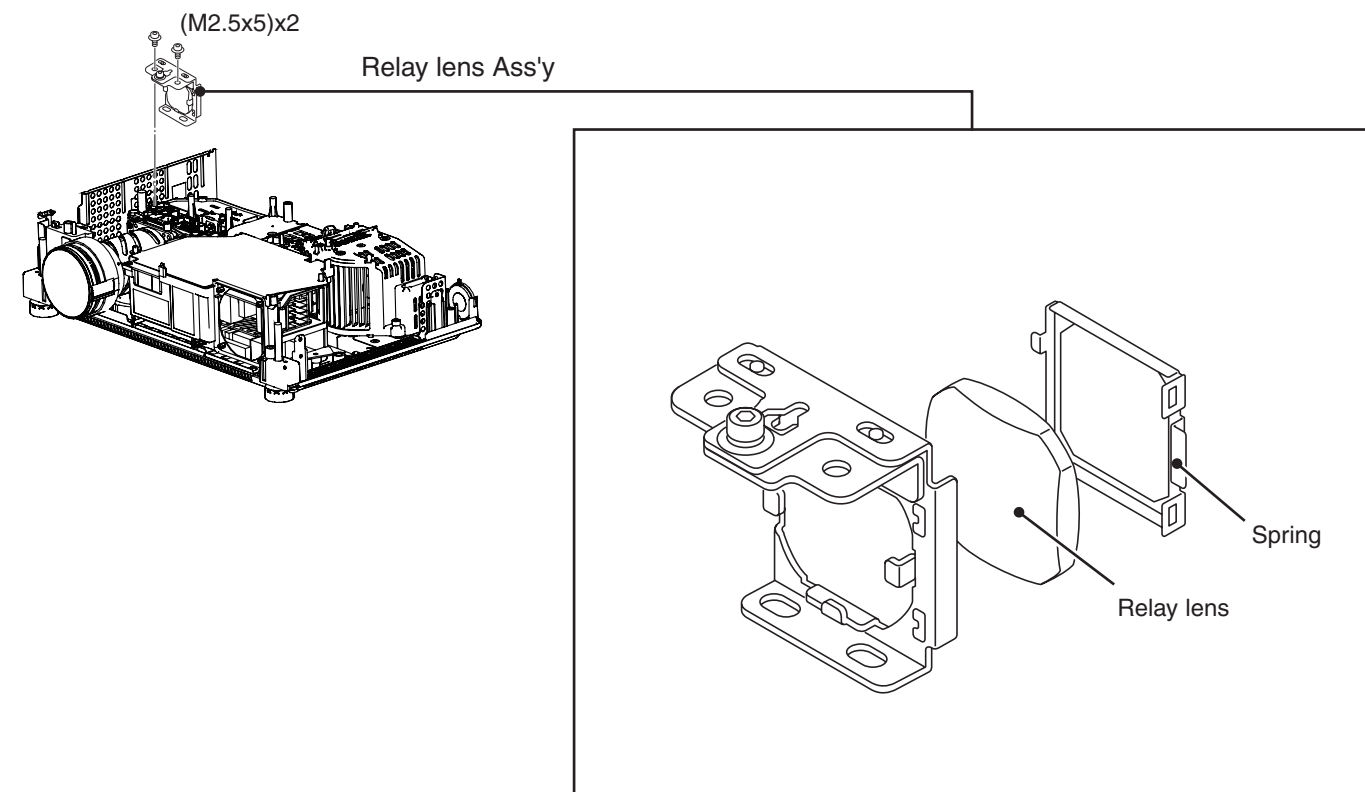


Fig.3

4 Polarized glass-in disassembly

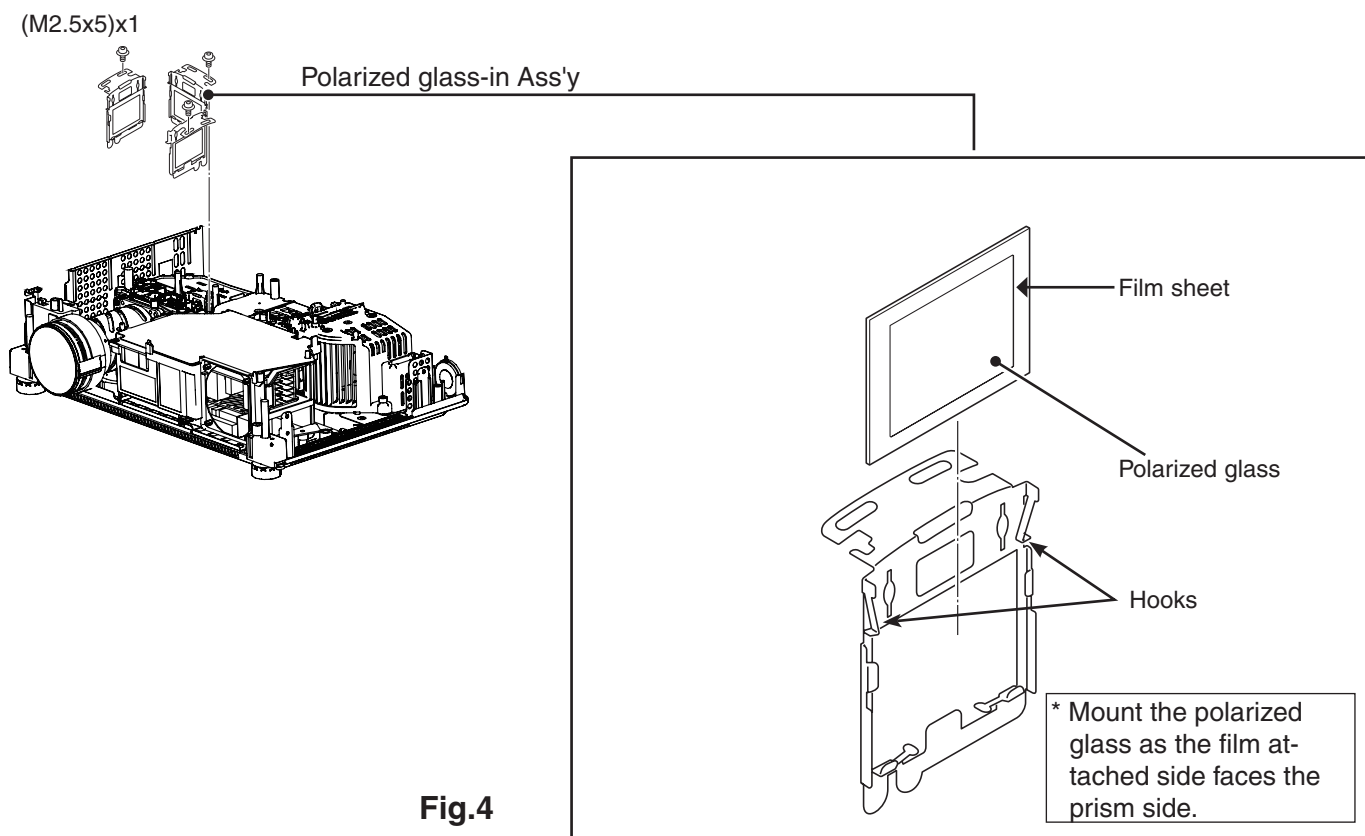


Fig.4

5 LCD Panel/Prism Ass'y removal

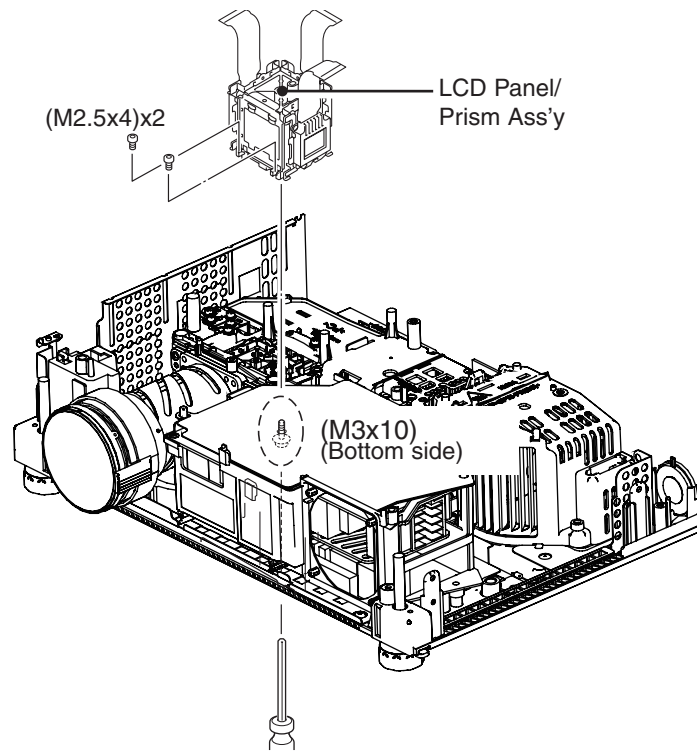


Fig.5-1

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance adjustment", "Gamma adjustment" and "Common Center adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Projector service tool". The software will be supplied separately and can be ordered as follows;

PROJECTOR SERVICE TOOL Ver. 4.20
Service Parts No. 610 343 5596

Panel Type Check

There are 2 types of LCD Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below.

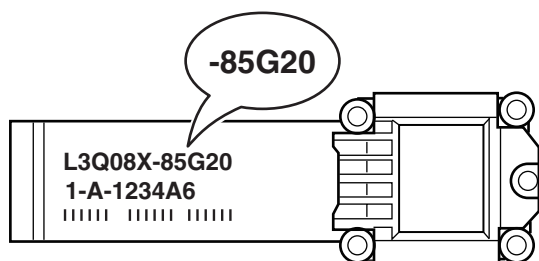
When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD Panel/Prism Ass'y.

The gamma-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

How to check the type of LCDPanel/Prism Ass'y

Check the printed number on the flat cable of the G-LCD Panel.

L-Type LCD Panel/Prism Ass'y



R-Type LCD Panel/Prism Ass'y

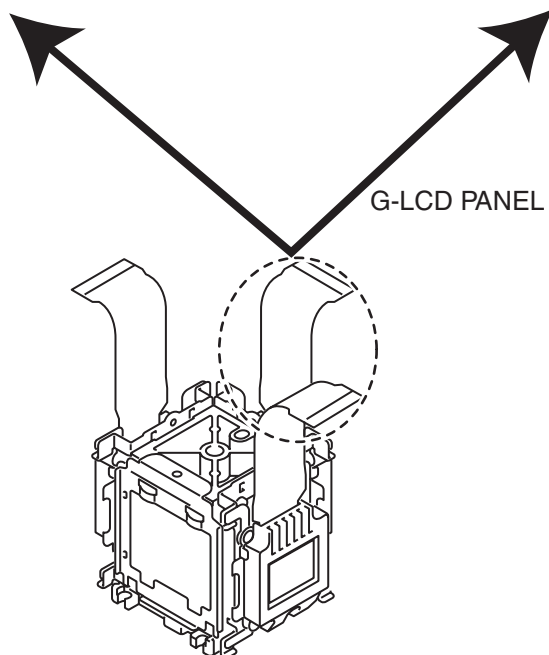
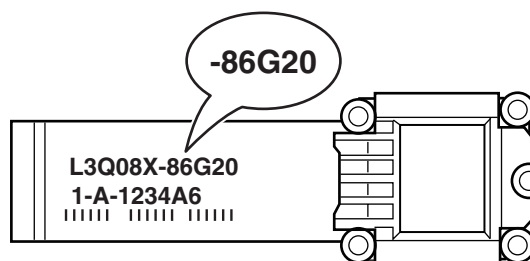


Fig.5-2

6 Polarized glass, Pre-polarized glass removal

* Mount the polarized glasses as the film attached side faces the LCD panel side.

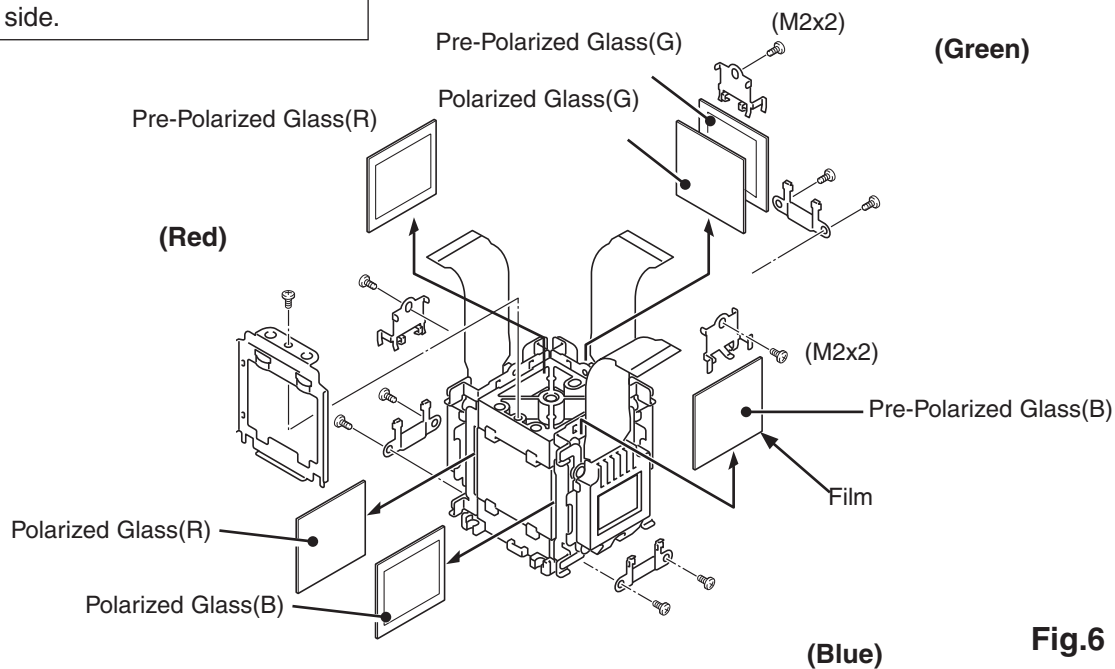


Fig.6

7 Optical unit top removal

1. Remove the Optical top A and Optical Top B.

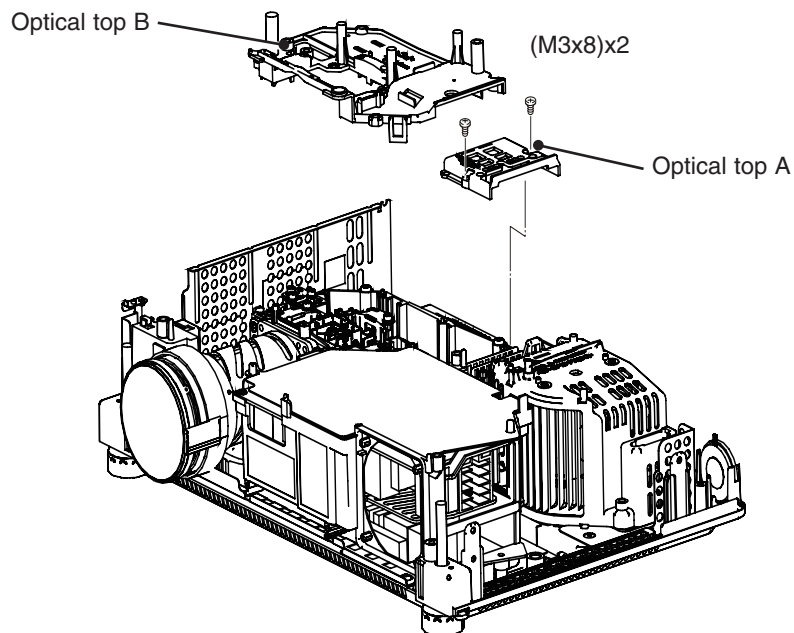


Fig.7

8 Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Relay Lens (IN)
8	Mirror (R)
9	Condenser lens (R)
10	Condenser lens (B)
11	Mirror (B)

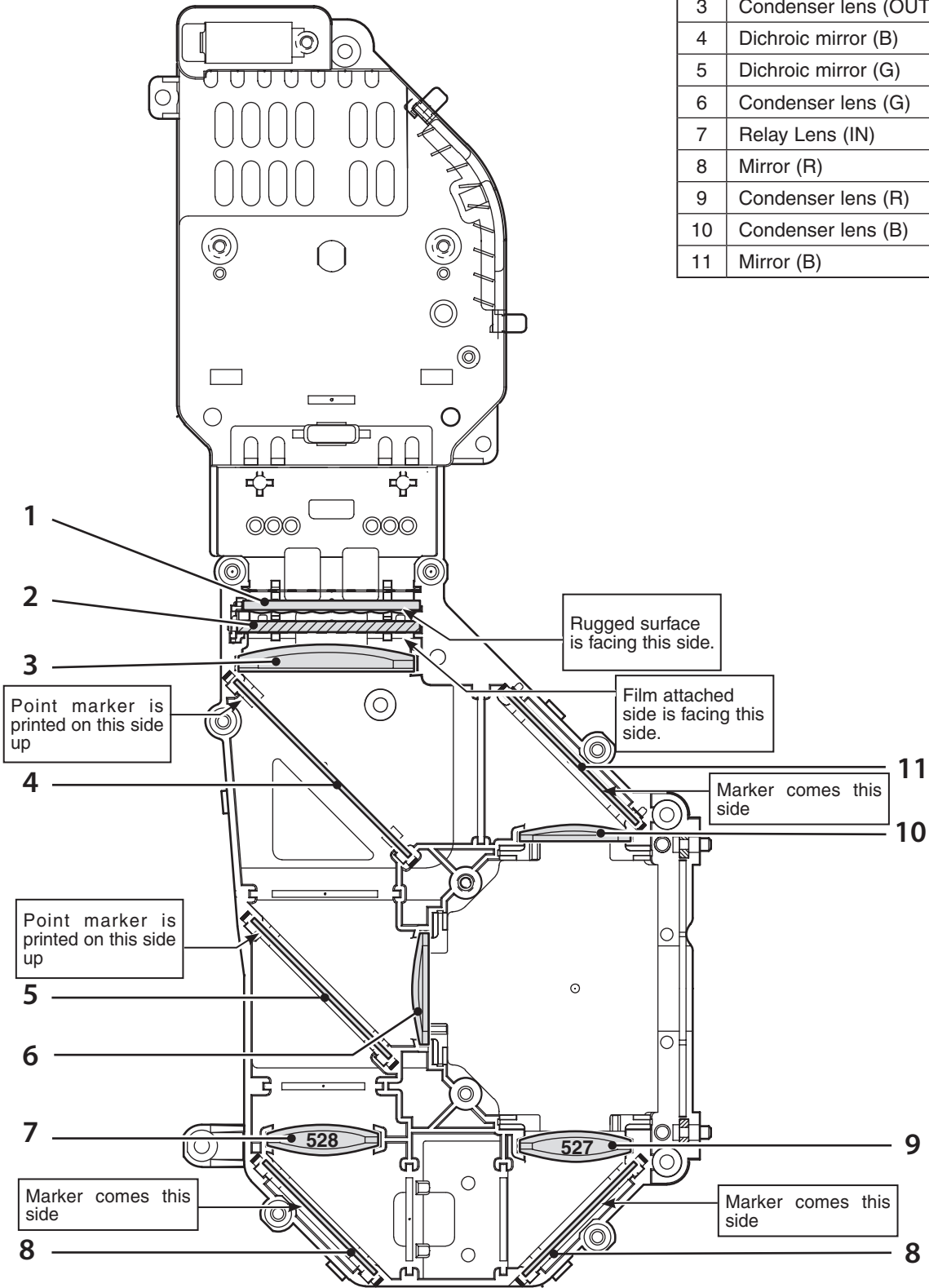


Fig.8

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (IN)	Relay Lens (OUT)	Polarized Glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	○	●						
	Relay lens-out adjustment	○		●					
Electrical Adjustments	Fan control adjustment							●	●
	Panel type check and setting	●							●
	Reference Voltage adjustment								●
	Auto calibration adjustment [PC]								●
	Auto calibration adjustment [Component]								●
	Auto calibration adjustment [Video]								●
	Common center adjustment	●							●
	Keystone offset adjustment								●
	White uniformity adjustment	○							○

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”. Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board. Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]

- Input a 100% of black raster signal.

- 1 Loosen a screw **A** (Fig.1) on the polarized glass mounting base which you intend to adjust.
- 2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
- 3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

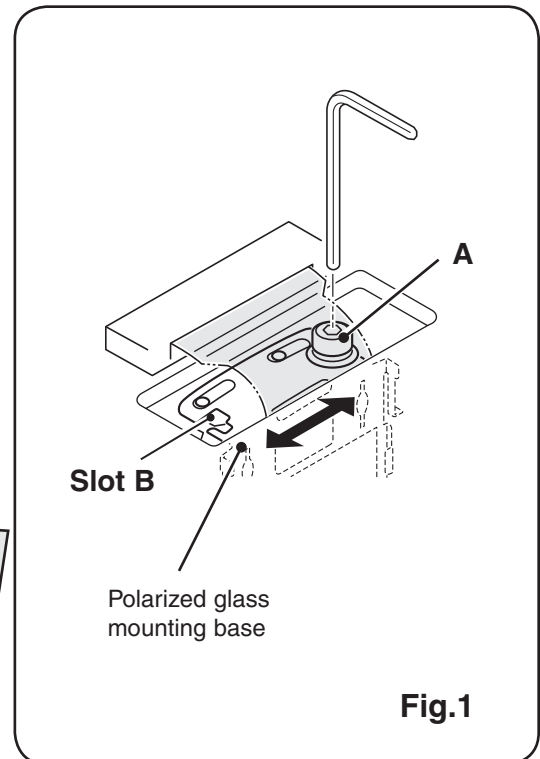
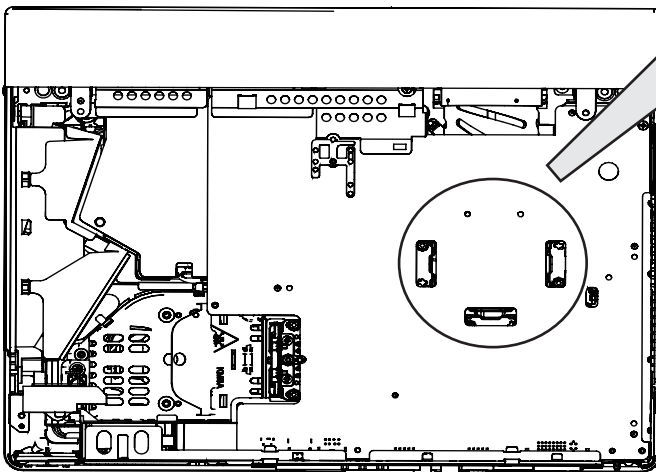


Fig.1

Integrator lens adjustment

- 1 Turn the projector on and input an all-white signal.
- 2 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and insert a slot screwdriver into the slot **D** and adjust color uniformity in white by turning a slot screwdriver up or down.
- 3 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:

The relay lens adjustment must be carried out after completing this adjustment.

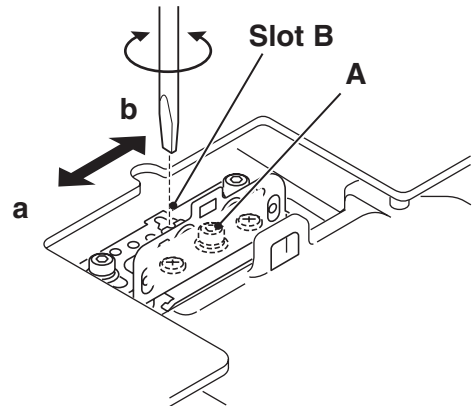
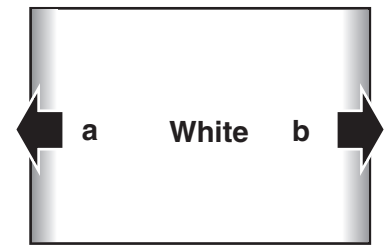
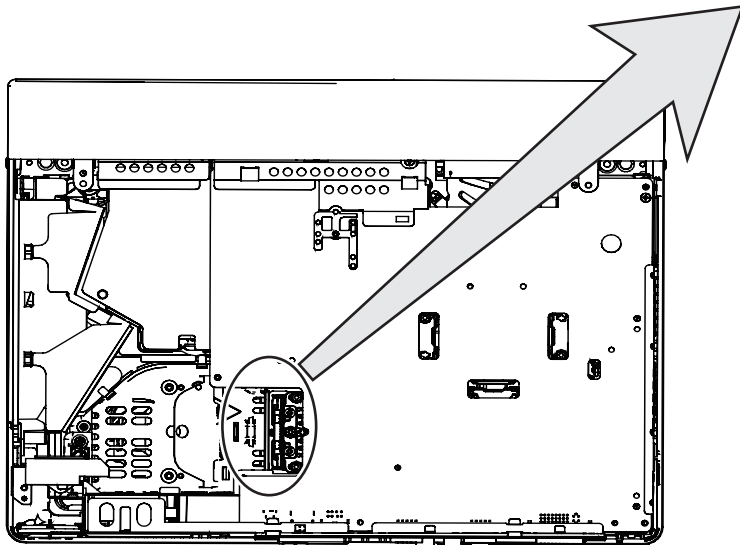


Fig.2-1
Moving of slot B

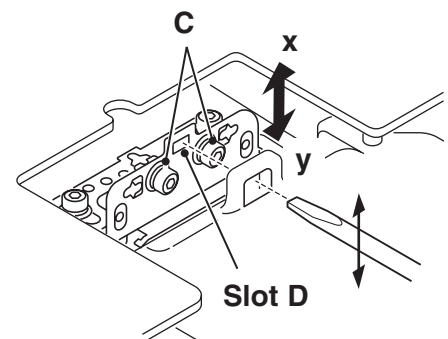
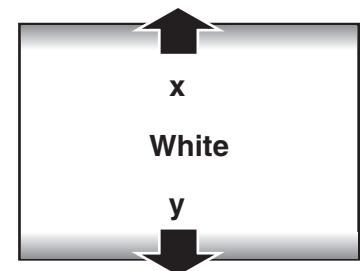


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

- 1 Turn the projector on and input an all-white signal.
- 2 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
- 3 Tighten the screw **A** to fix the relay lens unit.

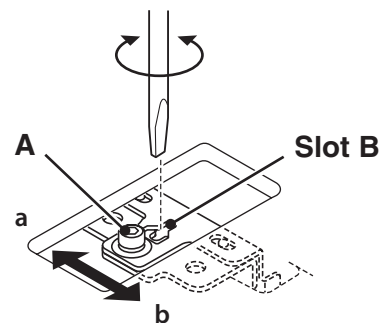
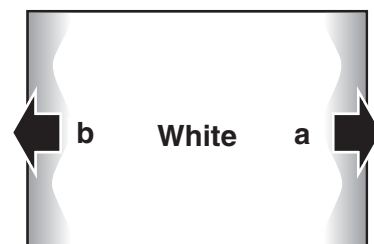
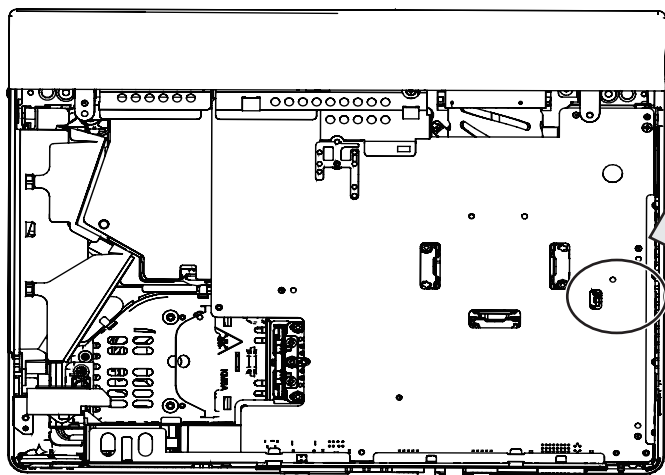


Fig.3
Moving of slot B

Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

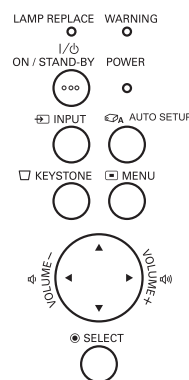
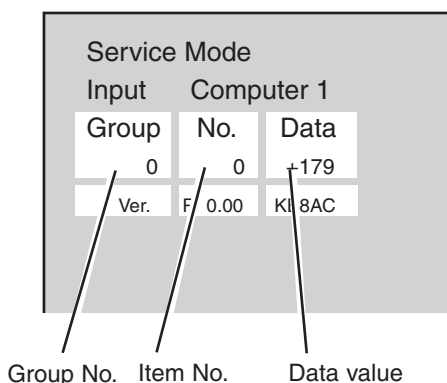
To enter the "Service Mode", press and hold the **MENU** and **SELECT** button for more than 3 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU** button (increase) or **SELECT** button (decrease), and select the adjustment item no. by pressing the pointer **▲** or **▼** button, and change the data value by pressing the **◀** or **▶** button. Refer to the "Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY** button.



Memory IC (IC1371) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the "Electrical Adjustments".

The data of lamp replacement counter is stored in the Memory IC.

Please note that the lamp replace counter will be reset when the memory IC is replaced.

(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as

factory shipped data, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

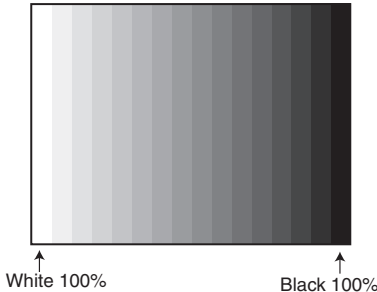
CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

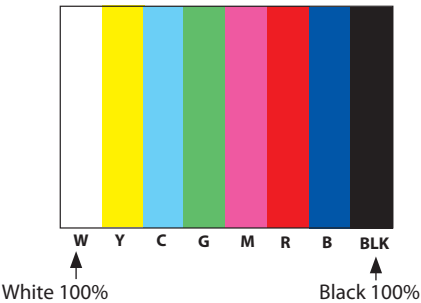
- Input signal
Video signal1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
Component Video signal1.0Vp-p/75Ω terminated, 8 color 100% color bar or 16 step gray scale (Component video signal)
Computer signal0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Image control mode“STANDARD” mode unless otherwise noted.

Note:
* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

16 steps gray scale pattern



8 color 100% color bar



1. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
Select group no. "290", item no. "0". Check the data value as follows;
Data value: 0 For L-Type of LCD Panel
Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
Select group no. "290", item no. "1" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

Note:

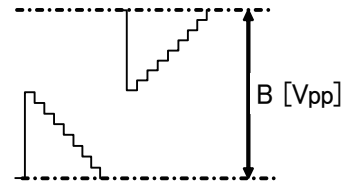
Be careful to take this adjustment. The value of gamma adjustment data will be reset and cannot be restored if you change the mode of LCD panel type.

2. Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point "TPFANA" (+) and chassis ground (-). Select group no. "250", item no. "0" and change data value to adjust voltage to be $5.5 \pm 0.1V$.
3. Connect a digital voltmeter to test point "TPFANA" (+) and chassis ground (-). Select item no. "1" and change data value to adjust voltage to be $13.5 \pm 0.1V$.
4. Connect a digital voltmeter to test point "TPFANB" (+) and chassis ground (-). Select item no. "2" and change data value to adjust voltage to be $6.5 \pm 0.1V$.
5. Connect a digital voltmeter to test point "TPFANB" (+) and chassis ground (-). Select item no. "3" and change data value to adjust voltage to be $13.5 \pm 0.1V$.
6. Connect a digital voltmeter to test point "TPFANC" (+) and chassis ground (-). Select item no. "4" and change data value to adjust voltage to be $5.0 \pm 0.1V$.
7. Connect a digital voltmeter to test point "TPFANC" (+) and chassis ground (-). Select item no. "5" and change data value to adjust voltage to be $13.5 \pm 0.1V$.

3. Reference Voltage Adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer 1 [RGB]** mode.
3. Select group no. "101", item no. "12" to adjust the voltage of TP_VMIDG to make the amplitude "B[Vpp]" to be $7.00 \pm 0.01V$
3. Select group no. "101", item no. "14" to adjust the voltage of TP_VREFG to make the amplitude "B[Vpp]" to be $9.5 \pm 0.01V$.



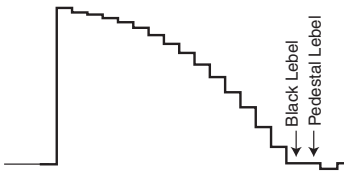
4. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

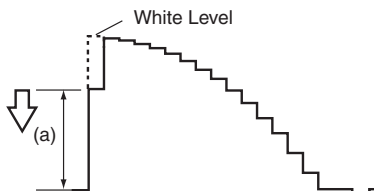
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select group no. "0", item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select group no. "0", item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



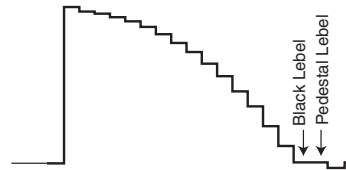
5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 8 color 100% color bar 480i-component signal with **Computer1 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

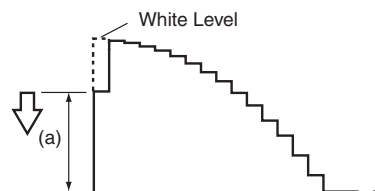
Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.



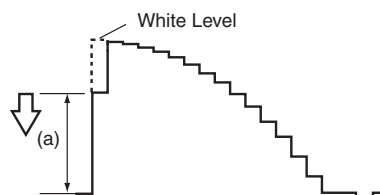
6. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



7. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no. "**100**", item no. "**92**" and change data value to "**2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no. "**101**", item no. "**1**" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no. "**0**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "**2**" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "**100**", item no. "**92**" and change data value to "**0**" to reset the panel frequency.

8. Keystone Offset adjustment

After replacing the G-sensor circuit (IC3850) or Memory IC (IC1371), readjust the Keystone Offset adjustment as follows.

1. Put the projector on a horizontal place with the adjustable feet being minimum range and then enter the service mode.
2. Select group no. "**102**", item no. "**3**" and set data value from "**0**" to "**5**".
3. By pressing the **SELECT** button, the Keystone Offset adjustment will start.
4. When it has completed, the "OK" message will appear on the screen.
5. By pressing any button on the projector or the remote control, the "OK" message will disappear. (Data value of Group no. "**102**", item no. "**3**" will be back from "**5**" to "**0**" for initial value.)

Note On White Uniformity Adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "PROJECTOR SERVICE TOOL CD-ROM" software supplied separately.

The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

4-input patterns:

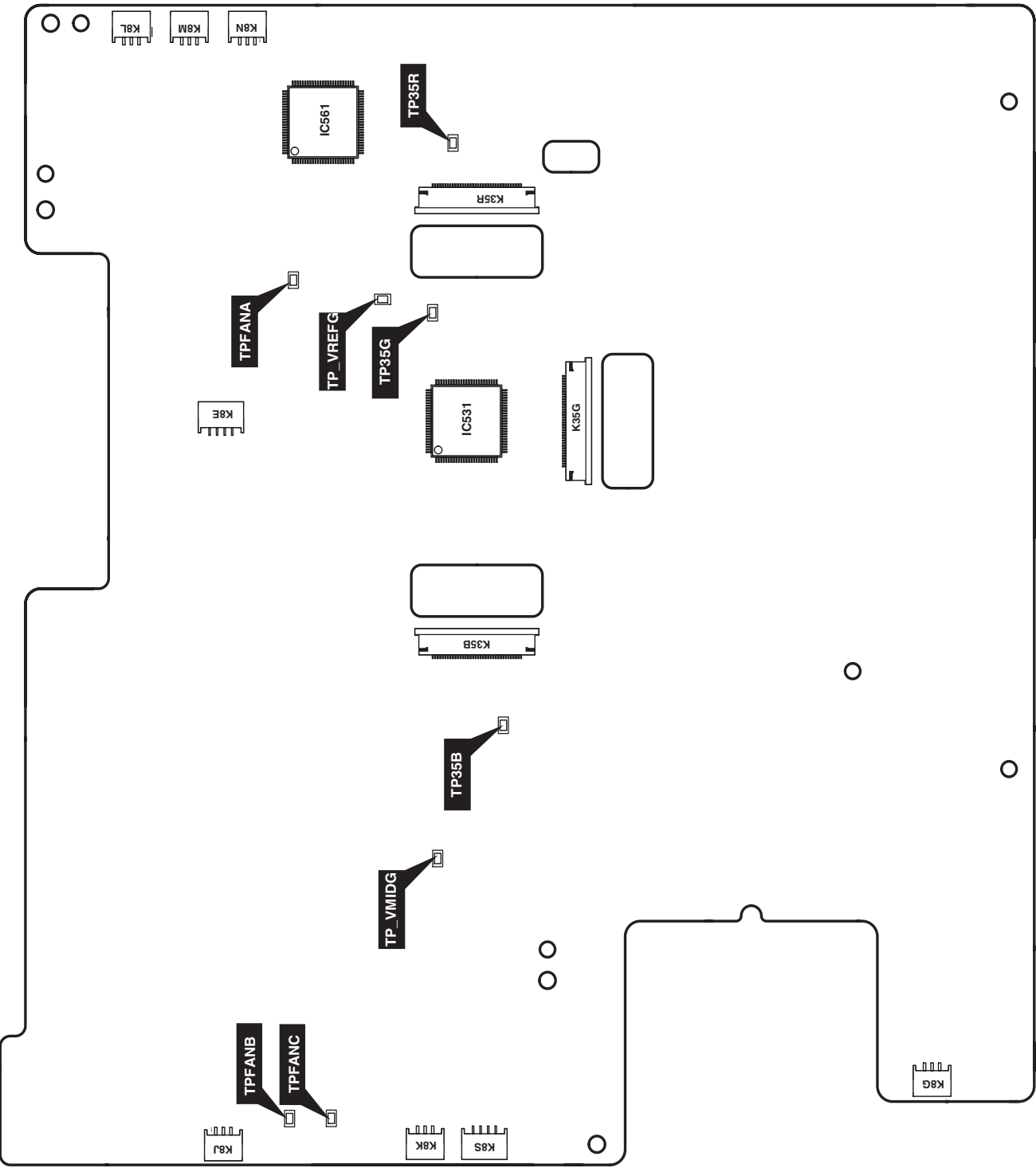
10% gray, 20% gray, 30% gray, 50% gray

The software can be ordered as follows;

PROJECTOR SERVICE TOOL Ver. 4.20
Service Parts No. 610 343 5596

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Group/Item	Item Name	Function	Initial	Range	Note
Group 0 AD Converter (PW190)					
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhold	4 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	Sync Processor				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 transition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 transition	0x700	0 - 9999	
Group 20	Video Decoder *R : Read Only Value				
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	General				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	Deinterlacer setting	Effective only for Progressive ON-L1 mode.			

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
0	Motion Adaptive Weight Value	<KDEINT>	60	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	Deinterlacer setting Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	Deinterlacer setting Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	Noise Reduction (Time) Effective only for N.R - Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	Noise Reduction (Time) Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	Noise Reduction (Time) Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	2:2pull down setting				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	2:3pull down setting				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	Image				
0	Center Contrast		534/578/534/534/492/492	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/496/512/500/512/512	0 - 1023	
2	Center Color		512/534/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		140/140/140/140/140/140	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 70	Keystone-Genaral				
0	Pass Through	0:Normal, 1:Pass through	0	0-1	
1	Filter Through	0:Disable, 1:Enable	0	0-1	
2	Filter Select		0	0-6	
Group 72	KeyStone-Pin Cushion				
0	Pin Cushion Enable	0:Disable, 1:Enable	0	0-1	
1	X-Gain		0	0-4095	
2	Y-Fain		0	0-4095	
3	X-Offset_X		0	0-2047	
4	X-Offset_Y		0	0-2047	
5	Y-Offset_X		0	0-2047	
6	Y-Offset_Y		0	0-2047	
Group 100	Panel Service				
0	G-SubGain		2048/2048/2048/2048/1950/1950/1830/1850	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
1	R-SubGain		2048/2048/2048/2048/1900/2048/1970/2048	0-4095	
2	B-SubGain		2048/2048/2048/2048/2048/2000/2048/2048	0-4095	
3	G-SubBright		0/0/0/0/0/0/0/0	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
4	R-SubBright		0/0/0/0/32/0/0	0-4095	
5	B-SubBright		0/0/0/0/32/0/48/0	0-4095	
6	G-GammaShift		0	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		0	0-4095	
8	B-GammaShift		0	0-4095	
9	G-ReferH		0/0	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		3819/3819	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		0/0	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		3819/3819	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		0/0	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		3819/3819	0-4095	Scan Direction (Front/Rear)
15	DXOutR		192	0-1023	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
16	DXOutG		192	0-1023	
17	DXOutB		192	0-1023	
18	H_Change_Pos		22	0-255	
19	SH_Base		1092	0-4095	
20	NRG_Pos		34	0-127	
21	NRG_Width		35	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-9	
24	GammaCtrl		1	0-1	
25	REF_GatePos		5	0-1023	
26	REF_GateDur		133	0-1023	
27	R-BasePos		2	0-15	
28	G-BasePos		2	0-15	
29	B-BasePos		2	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=256[0<-->256<-->512<-->768<-->1023]
32	LineR0		0	0-1023	(MIN<-->MAX Cyclic Operation)
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		2	0-31	
48	GhostG-Pos		2	0-31	
49	GhostB-Pos		2	0-31	
50	GhostR-Cent		0	0-2047	
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		0	0-2047	
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverceR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverceG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverceB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		289	0-1023	
79	R-Mid2		360	0-1023	
80	R-Mid1		409	0-1023	
81	R-Max		486	0-1023	
82	G-Min		322	0-1023	
83	G-Mid2		373	0-1023	
84	G-Mid1		415	0-1023	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
85	G-Max		481	0-1023	
86	B-Min		310	0-1023	
87	B-Mid2		367	0-1023	
88	B-Mid1		412	0-1023	
89	B-Max		485	0-1023	
90	H-OutPos		84	0-2047	
91	OutAreaLv		1536	0-1023	
92	FlickerAdj		0	0/2	not used
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		0	0-2047	
95	FrontCTalkR-Start		128	0-255	
96	FrontCTalkR-End		128	0-255	
97	FrontCTalkG-Cent		0	0-2047	
98	FrontCTalkG-Start		128	0-255	
99	FrontCTalkG-End		128	0-255	
100	FrontCTalkB-Cent		0	0-2047	
101	FrontCTalkB-Start		128	0-255	
102	FrontCTalkB-End		128	0-255	
103	R-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
104	R-DCOffset-N1		2016	0-2047	Scan Direction (Front/Rear)
105	R-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
106	R-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
107	R-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
108	R-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
109	R-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
110	R-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
111	R-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
112	R-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
113	R-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
114	R-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
115	R-DCOffset-N12		47	0-2047	Scan Direction (Front/Rear)
116	G-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
117	G-DCOffset-N1		2016	0-2047	Scan Direction (Front/Rear)
118	G-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
119	G-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
120	G-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
121	G-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
122	G-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
123	G-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
124	G-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
125	G-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
126	G-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
127	G-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
128	G-DCOffset-N12		47	0-2047	Scan Direction (Front/Rear)
129	B-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
130	B-DCOffset-N1		2016	0-2047	Scan Direction (Front/Rear)
131	B-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
132	B-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
133	B-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
134	B-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
135	B-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
136	B-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
137	B-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
138	B-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
139	B-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
140	B-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
141	B-DCOffset-N12		47	0-2047	Scan Direction (Front/Rear)
142	R-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
143	R-DCOffset-P1		39	0-2047	Scan Direction (Front/Rear)
144	R-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
145	R-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
146	R-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
147	R-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
148	R-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
149	R-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
150	R-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
151	R-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
152	R-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
153	R-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
154	R-DCOffset-P12		2023	0-2047	Scan Direction (Front/Rear)
155	G-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
156	G-DCOffset-P1		39	0-2047	Scan Direction (Front/Rear)
157	G-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
158	G-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
159	G-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
160	G-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
161	G-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
162	G-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
163	G-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
164	G-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
165	G-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
166	G-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
167	G-DCOffset-P12		2023	0-2047	Scan Direction (Front/Rear)
168	B-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
169	B-DCOffset-P1		39	0-2047	Scan Direction (Front/Rear)
170	B-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
171	B-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
172	B-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
173	B-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
174	B-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
175	B-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
176	B-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
177	B-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
178	B-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
179	B-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
180	B-DCOffset-P12		2023	0-2047	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_SETP_0		14	0-1023	
186	R_V_INPUT_SETP_512		9	0-1023	
187	R_V_INPUT_SETP_1024		5	0-1023	
188	R_V_INPUT_SETP_1536		2	0-1023	
189	R_V_INPUT_SETP_2048		1020	0-1023	
190	R_V_INPUT_SETP_2560		1018	0-1023	
191	R_V_INPUT_SETP_3072		1016	0-1023	
192	R_V_INPUT_SETP_3584		1014	0-1023	
193	R_V_INPUT_SETP_4096		1012	0-1023	
194	G_V_INPUT_SETP_0		14	0-1023	
195	G_V_INPUT_SETP_512		9	0-1023	
196	G_V_INPUT_SETP_1024		5	0-1023	
197	G_V_INPUT_SETP_1536		2	0-1023	
198	G_V_INPUT_SETP_2048		1020	0-1023	
199	G_V_INPUT_SETP_2560		1018	0-1023	
200	G_V_INPUT_SETP_3072		1016	0-1023	
201	G_V_INPUT_SETP_3584		1014	0-1023	
202	G_V_INPUT_SETP_4096		1012	0-1023	
203	B_V_INPUT_SETP_0		14	0-1023	
204	B_V_INPUT_SETP_512		9	0-1023	
205	B_V_INPUT_SETP_1024		5	0-1023	
206	B_V_INPUT_SETP_1536		2	0-1023	
207	B_V_INPUT_SETP_2048		1020	0-1023	
208	B_V_INPUT_SETP_2560		1018	0-1023	
209	B_V_INPUT_SETP_3072		1016	0-1023	
210	B_V_INPUT_SETP_3584		1014	0-1023	
211	B_V_INPUT_SETP_4096		1012	0-1023	
212	FRPPOL		84	0-1023	
213	FRP_POS		25	0-255	
214	SWAP		1360	0-2047	
215	PRE_COLSHD_SEL		0	0-2055	
216	HSYNC_FOLLOW		1	0-1	
217	DELAY_HSYNC		0	0-2047	
218	DELAY_VSYNC		8	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
223	BLANK_GCENTER		0	0-2047	
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	Output limit R		4095	0-4095	
230	Output limit G		4095	0-4095	
231	Output limit B		4095	0-4095	
232	CROSSTALK_COEF_R		1023	0-1023	
233	CROSSTALK_COEF_G		1023	0-1023	
234	CROSSTALK_COEF_B		1023	0-1023	
235	LCCON_ENABL		0	0-1	
236	ENBY_L1		12	0-255	
237	ENBY_H1		675	0-1026	
238	ENBY_L2		12	0-255	
239	ENBY_H2		675	0-1023	
Group101 : Panel Service(6150/1060)					
0	R-LCCOM		128	0-255	
1	G-LCCOM		128	0-255	
2	B-LCCOM		128	0-255	
3	R-ENBX-PW		4	0-15	
4	G-ENBX-PW		4	0-15	
5	B-ENBX-PW		4	0-15	
6	R-DXIN		38	28-64	
7	G-DXIN		38	28-64	
8	B-DXIN		38	28-64	
9	R-ENBX1IN		17	0-31	
10	G-ENBX1IN		17	0-31	
11	B-ENBX1IN		17	0-31	
12	Vmid		150	0-255	
13	R-Ref		150	0-255	
14	G-Ref		150	0-255	
15	B-Ref		150	0-255	
Group102 : Auto Keystone Setup Value					
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group 200					
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
30	Lamp life test enable				0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose			
32	Lamp Off time(for life test)	For test purpose			
33	Lamp total time(for life test)	For test purpose			
40	Lamp PWM PresAv 50Hz		80	0-255	
41	Lamp PWM PresAv 60Hz		67	0-255	
42	Lamp PWM PresUnlock		65	0-255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
43	Lamp PWM PresPcA		2	0-255	
44	Lamp PWM PresPcB		3	0-255	
45	Lamp PWM PrefHAv50Hz		5000	0-65535	
46	Lamp PWM PrefHAv60Hz		5000	0-65535	
47	Lamp PWM PrefHUnlock		5000	0-65535	
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0 - 1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0 - 1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Factory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X axis)	0	0 - 1024	
57	Menu Position	Move menu (Y axis)	0	0 - 1024	
58	Lamp Go Out		0	0 - 1	
59	Source Search Enable	Source Search Enable	1	0 - 1	
60	Language Default setting	0:English(Default) 1:Japanese	0	0 - 1	Set the default language
Group 201 Option (signal)					
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Disable, Used all the Center Values) 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensitivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensitivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 202 Option (MCI model only)					
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
Group 210 LampControl					
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0 - 255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial		Range	Note	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63		0 - 255		
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70		0 - 255		
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77		0 - 255		
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84		0 - 255		
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	97		0 - 255		
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98		0 - 255		
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105		0 - 255		
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4		0 - 16		
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-		-	* Read only	
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-		-	* Read only	
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	7/7/11		0 - 15		
19	DIMMER_LEVEL_ECO	Eco Dimmer Level	0		0 - 15		
20	Lamp check enable		0			0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)	
21	VOLTAGE_LEVEL	Lamp Voltage	-			Unit: 8bit(Raw Data) * Read only	
22	DIMMER_LEVEL_HIGH	Dimmer level High	15		0 - 15		
Group 231	VBI Slice Level						
0	Generic Initial Slicing Level	PW190 register 0xE344	0x34		0-255		
1	Generic High Level Threshold	PW190 register 0xE345	-		0-255		
2	Generic Low Level Threshold	PW190 register 0xE346	-		0-255		
3	Generic Minimum Low Level	PW190 register 0xE344	0x30		0-255		
4	Generic mAXIMUM high Level	PW190 register 0xE348	0xe0		0-255		
					0-255		
Group 250	FAN Control						
0	FAN1 MIN ADJUST (DAC)		10		0 - 255		
1	FAN1 MAX ADJUST (DAC)	DAC Output for Fan	225		0 - 255		
2	FAN2 MIN ADJUST (DAC)	Adjust the tolerance of DAC and Fan	10		0 - 255		
3	FAN2 MAX ADJUST (DAC)	Voltage.	225		0 - 255		
4	FAN3 MIN ADJUST (DAC)	* Lamp mode is forced Eco	10		0 - 255		
5	FAN3 MAX ADJUST (DAC)		225		0 - 255		
6	Not used						
7	Not used						
Group 251	Not used						
Group 252	Fan Option						
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0		0 - 5		
1	SAFETY SWITCH	For test purpose	0		0 - 6		
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0		0 - 3		
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100		0 - 255		
4	FAN2 MANUAL VOLTAGE	Effective only when Fan Maual switch is 1	100		0 - 255		
5	FAN3 MANUAL VOLTAGE		100		0 - 255		
6	Not used						
Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling	
0	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	46	46	42	39	30-100
1	Temp B Warning (High)	Temp. B to judge the Temp Error at High (Panel)	60	60	57	54	30-100
2	Temp C Warning (High)	Temp. C to judge the Temp Error at High (Lamp)	65	65	64	64	30-100

Electrical Adjustments

Group/Item	Item Name	Function	Initial				Range	Note
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	46	46	42	46	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	60	61	56	54	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	65	65	63	63	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	46	46	41	40	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco (Panel)	60	61	55	54	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco (Lamp)	65	64	62	62	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
15	Temp A Warning Offset (Temp)			5			0-100	
16	Temp B Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp * Right to change the Lamp mode		5			0-100	
17	Temp C Warning Offset (Temp)			15			0-100	
18	Temp B-A Warning Offset (Temp)			0			0-100	
19	Temp C-A Warning Offset (Temp)			0			0-100	
20	Temp A Warning Offset (Time)			5			0-100	
21	Temp B Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp * Right to change the Lamp mode		5			0-100	
22	Temp C Warning Offset (Time)			18			0-100	
23	Temp B-A Warning Offset (Time)			1			0-100	
24	Temp C-A Warning Offset (Time)			1			0-100	
25	Factory Mode	For factor use		0			0-1	

Group 254	Fan Control Range Setting (Temp./Voltage)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
	0 High Fan Control Min Temp	Temp Sensor Control Start/End Temp. at High	38	38	34	33	20-100	
	1 High Fan Control Max Temp		43	43	40	38	20-100	
	2 High Fan1 Min		85	85	105	105	0-255	
	3 High Fan1 Max		135	135	135	135	0-255	
	4 High Fan2 Min		85	85	110	110	0-255	
	5 High Fan2 Max		Fan voltage value at High (unit: 0.1V)	130	130	130	130	0-255
	6 High Fan3 Min			75	75	100	100	0-255
	7 High Fan3 Max			77	77	115	115	0-255
	8 High Fan4 Min			9999		9999		-
	9 High Fan4 Max		9999		9999		-	
	10 Normal Fan Control Min Temp	Temp Sensor Control Start/End Temp. p at Normal	38	39	35	33	20-100	
	11 Normal Fan Control Max Temp		43	43	40	38	20-100	
	12 Normal Fan1 Min		70	70	95	95	0-255	
	13 Normal Fan1 Max		125	125	125	125	0-255	
	14 Normal Fan2 Min		75	75	100	100	0-255	
	15 Normal Fan2 Max		Fan voltage value at Normal (unit: 0.1V)	120	120	120	120	0-255
	16 Normal Fan3 Min			85	85	105	105	0-255
	17 Normal Fan3 Max			85	85	110	110	0-255
	18 Normal Fan4 Min			9999		9999		-
	19 Normal Fan4 Max	9999			9999		-	
	20 Eco Fan Control Min Temp	Temp Sensor Control Start/End Temp. p at Eco	38	39	35	32	20-100	
	21 Eco Fan Control Max Temp		42	43	39	38	20-100	
	22 Eco Fan1 Min		60	60	95	95	0-255	
	23 Eco Fan1 Max		Fan voltage value at Eco (unit: 0.1V)	115	115	115	115	0-255
	24 Eco Fan2 Min			68	68	90	90	0-255
	25 Eco Fan2 Max		110	110	110	110	0-255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial				Range	Note
26	Eco Fan3 Min	Fan voltage value at Eco (unit: 0.1V)	53	53	58	58	0-255	
27	Eco Fan3 Max		53	53	63	63	0-255	
28	Eco Fan4 Min		9999		9999		-	
29	Eco Fan4 Max		9999		9999		-	

Group 255	Fan Start/Cooling Setting							
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	70				0-255	
1	Fan2 Initial Volt		70				0-255	
2	Fan3 Initial Volt		70				0-255	
3	Not used		9999				-	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	130				0-255	
5	Fan2 Cooling Speed		130				0-255	
6	Fan3 Cooling Speed		130				0-255	
7	Not used		9999				-	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	2				1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3				1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	3				1-15	
11	OnStart Cooling Start Threshold		38				0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1				0-1	

Group 256	Fan Lamp Voltage Down Setting							
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-				0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (Vx10)					30-90	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)					0-255	
3	Fan2 Speed Gain						0-255	
4	Fan3 Speed Gain						0-255	
5	Not used		9999				0-255	

Group 257	Fan Dimmer Setting							
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:6sec, 90sec...10:300sec)	1				0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-					
2	Last Voltage Difference		-					
3	Voltate Difference Goal							

Group 258	Fan IC Temp for Netowrk model							
0	Standby Cooling Check Cycle	Temp A check cycle at Standby	5					
1	Standby Cooling Start Threshold	Cooling start threshold temp A	46					
2	Standby Cooling Enable	Cooling in standby Enable	1					

Group 260	Auto Calibration (Commn) * Auto Calibration							
0	Execute Calibration		0				0 - 1	Executes Auto-Calibration when changing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10				1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0				0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1				1 - 20	
4	CHECK -Tolence	Tolerance of OFFSET	2				1 - 255	

Group 261	Auto Calibration (RGB)							
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975				0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500				0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25				0 - 1000	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1 - 255	
Group 262 Auto Calibration (CVBS/SVIDEO)					
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
2	Cb Image Area Start X	Cb Acquiring Area H-Start Position	500	0-1000	
3	Cb Image Area Start Y	Cb Acquiring Area V-Start Position	500	0-1000	
4	Cr Image Area Start X	Cr Acquiring Area H-Start Position	500	0-1000	
5	Cr Image Area Start Y	Cr Acquiring Area V-Start Position	500	0-1000	
6	Image Area H Width	Image Level Acquiring Area	8	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
9	Cb Target Level	Target Value of Cb Level Adj.	217	0-255	
10	Cr Target Level	Target Value of C Level Adj.	217	0-255	
11	Gain Tolerance	Torelance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 255	
Group 264 Auto Calibration (YCbCr)					
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START		50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	8	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0 - 255	
17	Y - GAIN TARGET		217	0 - 255	
18	CB - GAIN TARGET		237	0 - 255	
19	CR - GAIN TARGET		237	0 - 255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1 - 255	
Group 280 AutoPC Adjst					
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Frequency Threshold	5	0 - 10	0 [] <--- ----> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290 PanelType * Panel Type Check					

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500	Composite (NTSC) Composite / S-Video				
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	Composite (PAL) Composite / S-Video				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502	Composite (SECAM) Composite / S-Video				
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	SCART(480i)				
0					
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		126	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
Group 511	SCART (575i)				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		144	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 520	YCbCr (480i)				
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521	YCbCr (575i)				
0	Total Dots		864	0 ~ 4095	
1	Disp Dots		656	0 ~ 4095	
2	H Back Porch		162	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 522	YCbCr (480P)				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
Group 523	YCbCr (575P)				
0	Total Dots		64	0 ~ 4095	* Read only
1	Disp Dots		680	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524	YCbCr (720P - 60)				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		316	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525	YCbCr (720P - 50)				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	YCbCr (1080i - 60)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	YCbCr (1080i - 50)				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		262	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528	YCbCr (1035i)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		256	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	RGB Video (480i)				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 541	RGB Video (575i)				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 542	RGB Video (480P)				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	

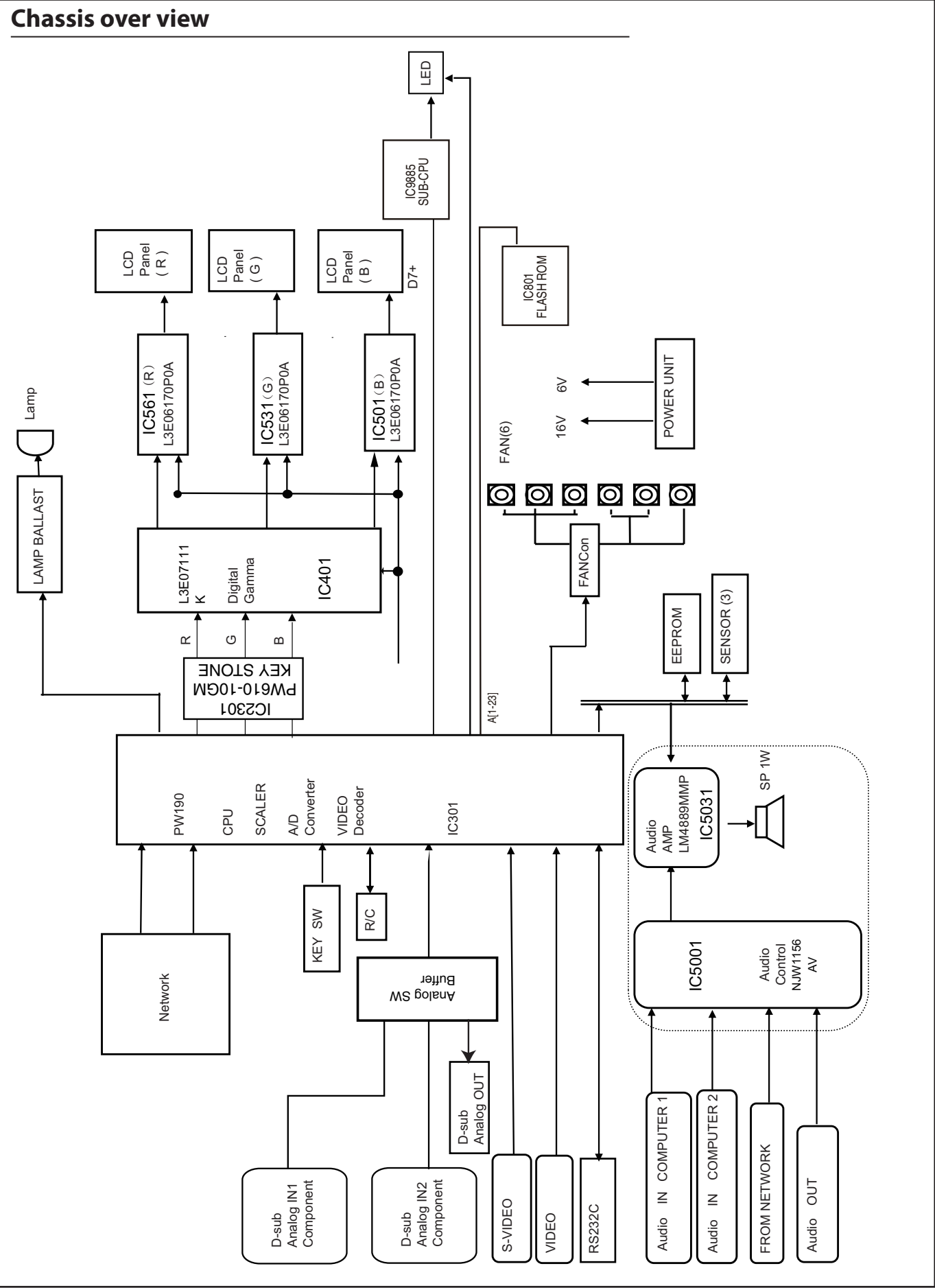
Electrical Adjustments

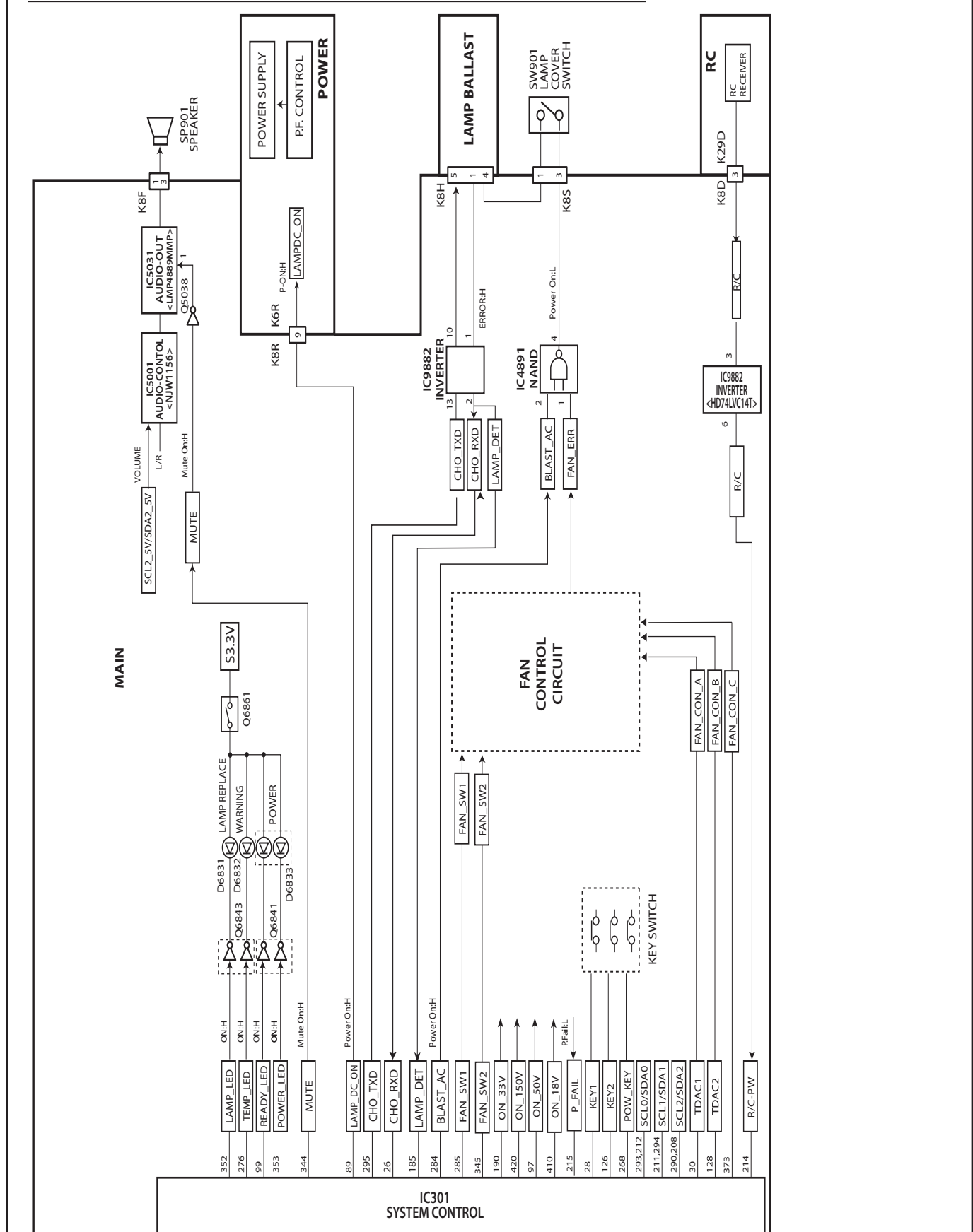
Group/Item	Item Name	Function	Initial	Range	Note
	2	H Back Porph	156	0 ~ 4095	
	3	V Back Porph	46	0 ~ 4095	
	4	Disp Line	460	0 ~ 4095	
	5	Clamp	1	0 ~ 255	
	6	Clamp Width	31	0 ~ 255	
Group 543	RGB Video (575P)				
	0	Total Dots	986	0 ~ 4095	
	1	Disp Dots	774	0 ~ 4095	
	2	H Back Porph	174	0 ~ 4095	
	3	V Back Porph	62	0 ~ 4095	
	4	Disp Line	540	0 ~ 4095	
	5	Clamp	1	0 ~ 255	
	6	Clamp Width	31	0 ~ 255	
Group 544	RGB Video (720P - 60)				
	0	Total Dots	1650	0 ~ 4095	
	1	Disp Dots	1248	0 ~ 4095	
	2	H Back Porph	318	0 ~ 4095	
	3	V Back Porph	34	0 ~ 4095	
	4	Disp Line	702	0 ~ 4095	
	5	Clamp	1	0 ~ 255	
	6	Clamp Width	31	0 ~ 255	
Group 545	RGB Video (720P - 50)				
	0	Total Dots	1980	0 ~ 4095	
	1	Disp Dots	1246	0 ~ 4095	
	2	H Back Porph	310	0 ~ 4095	
	3	V Back Porph	34	0 ~ 4095	
	4	Disp Line	702	0 ~ 4095	
	5	Clamp	1	0 ~ 255	
	6	Clamp Width	31	0 ~ 255	
Group 546	RGB Video (1080i - 60)				
	0	Total Dots	2200	0 ~ 4095	
	1	Disp Dots	1872	0 ~ 4095	
	2	H Back Porph	262	0 ~ 4095	
	3	V Back Porph	56	0 ~ 4095	
	4	Disp Line	1052	0 ~ 4095	
	5	Clamp	1	0 ~ 255	
	6	Clamp Width	31	0 ~ 255	
Group 547	RGB Video (1080i - 50)				
	0	Total Dots	2640	0 ~ 4095	
	1	Disp Dots	1868	0 ~ 4095	
	2	H Back Porph	264	0 ~ 4095	
	3	V Back Porph	54	0 ~ 4095	
	4	Disp Line	1052	0 ~ 4095	
	5	Clamp	1	0 ~ 255	
	6	Clamp Width	31	0 ~ 255	
Group 548	RGB Video (1035i)				
	0	Total Dots	2200	0 ~ 4095	
	1	Disp Dots	1868	0 ~ 4095	
	2	H Back Porph	258	0 ~ 4095	
	3	V Back Porph	92	0 ~ 4095	
	4	Disp Line	1012	0 ~ 4095	
Group 560	HDCP (480P)				
	7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255
	8	VSBEQ		2	0 - 15
Group 561	HDCP (575P)				
	7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255

Electrical Adjustments

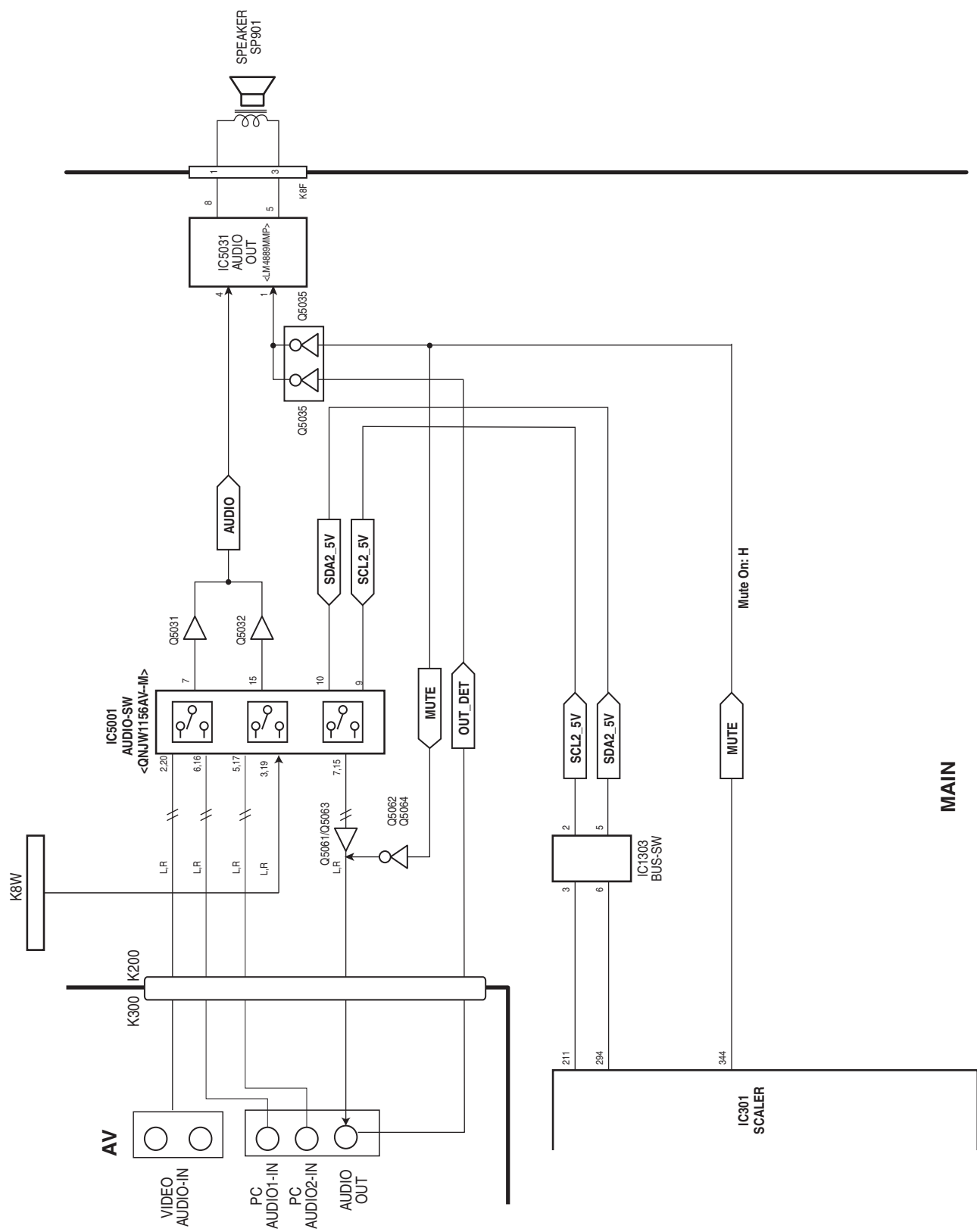
Group/Item	Item Name	Function	Initial	Range	Note
8	VSBEG		2	0 - 15	
Group 562	HDCP (720P-60)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)		0 - 255	
8	VSBEG		2	0 - 15	
Group 563	HDCP (720P-50)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 564	HDCP (1080i-60)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 565	HDCP (1080i-50)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 566	HDCP (1035i)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 981	Color Shading Adj Offset				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

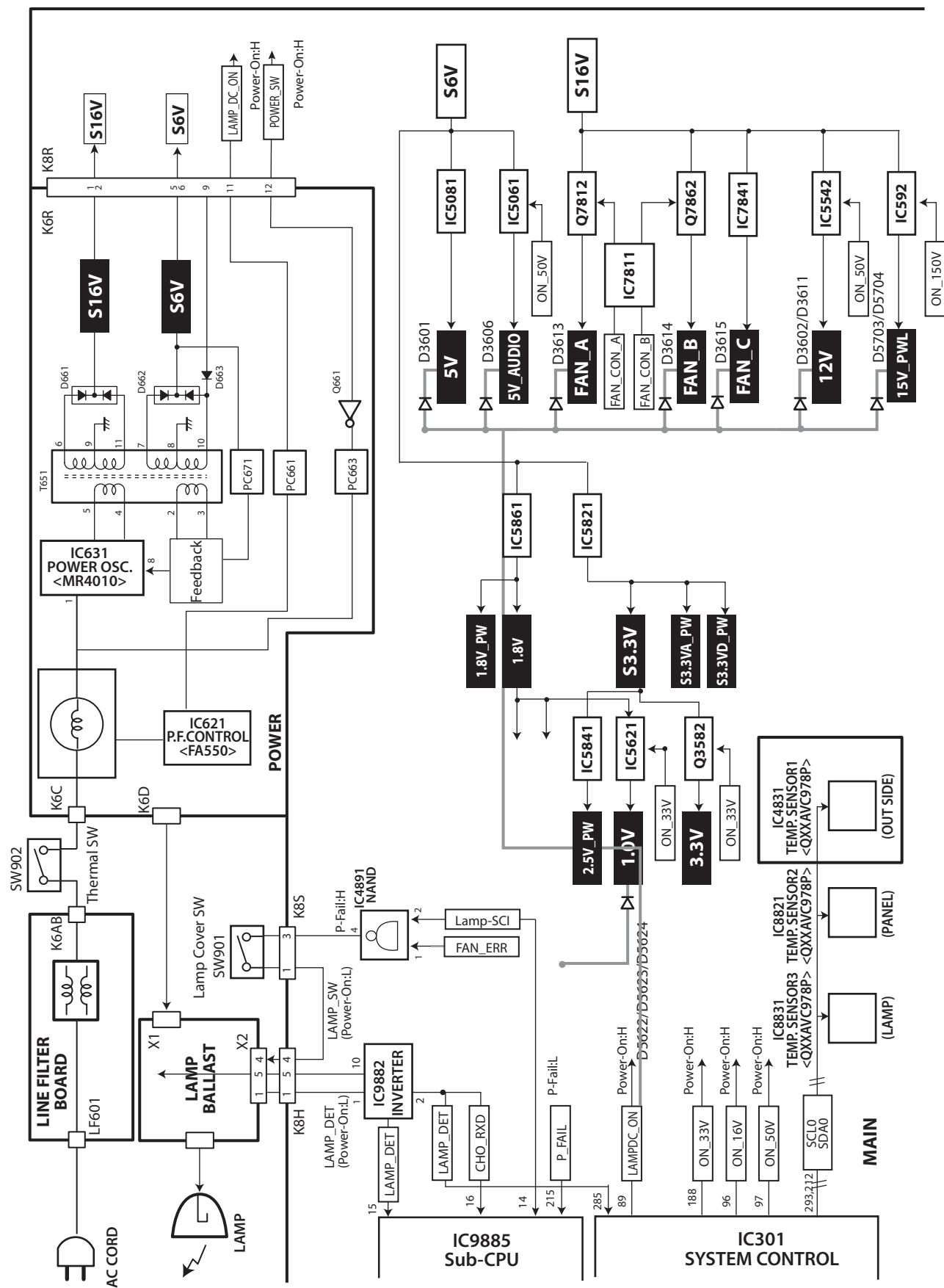
Chassis Block Diagrams





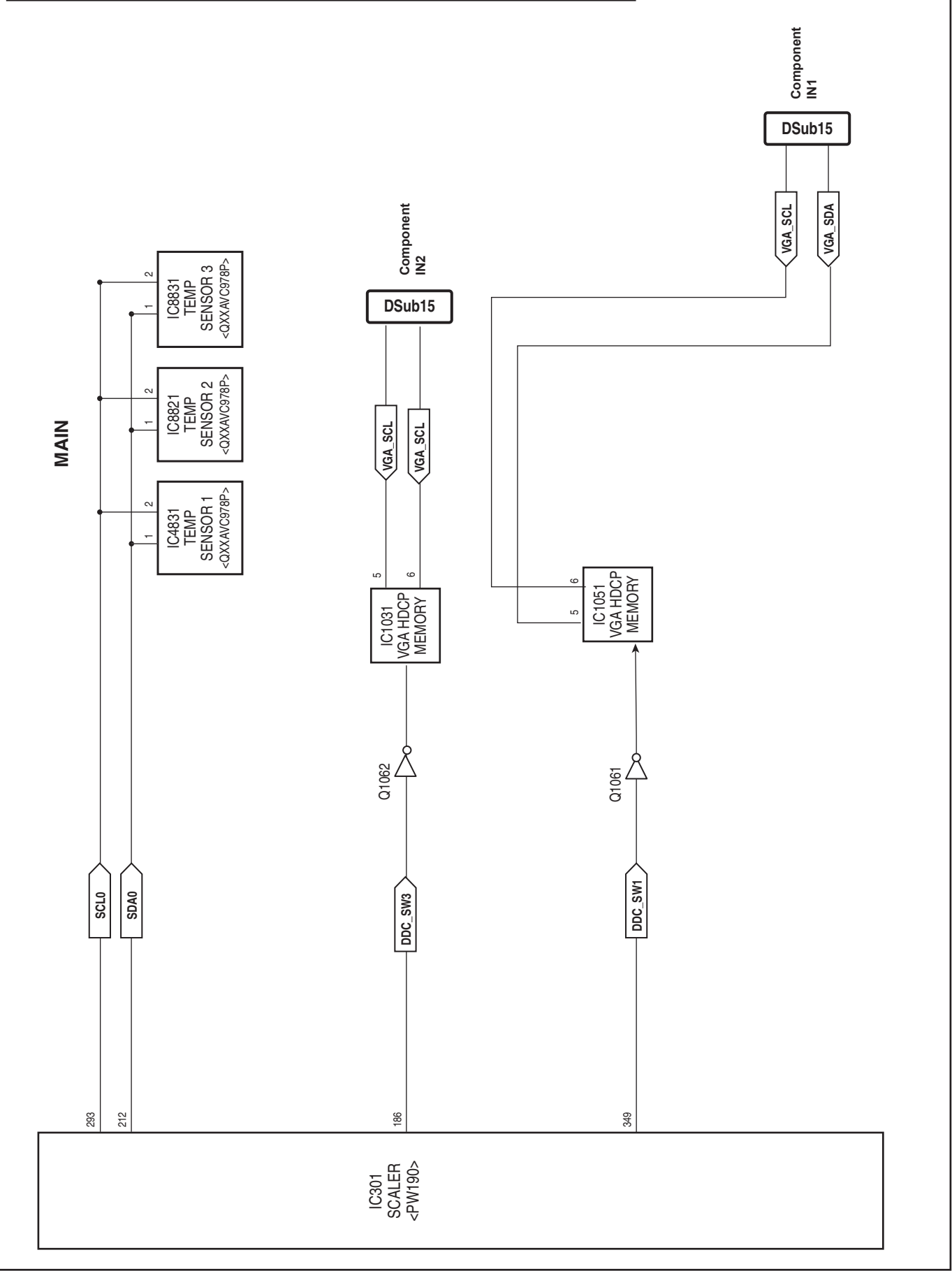
Audio circuit































IIC bus control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.


Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
			The projector is off. (The AC power cord is unplugged.)
			The projector is in stand-by mode. Press the POWER ON/STAND-BY button to turn on the projector.
			The projector is operating normally.
			The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING indicator keeps blinking.)
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.
			The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

 • • • green

 • • • red

 • • • off

 • • • blinks green

 • • • blinks red

***** When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

AC cord, F601 (Fuse), Power board,

SW902 (Thermal sw.) short in normal

SW902 opens when the surrounding temperature of the switch exceeds 100°C.

- **When the WARNING (red) and POWER(red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC8831(Lamp), IC8821 (Panel) on the Main board and IC4831 (Out side) on the Temp. board

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SCALER> when the abnormality occurs inside the projector, and then the IC301 sends the shutdown signal, LAMP_DC_ON, to the power supply circuit to stop its operation, and signal LAMP_SCI to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

Check power supplies 15V, S6V, P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;

Check FN901, FN902, FN903, FN904, FN905, FN907 and peripheral circuit.

If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.

An abnormality occurs on the drive signals;

ON_150V signal (Power-on: H) is output from pin 420 of IC301, 15V supply circuit.

ON_50V signal (Power-on: H) is output from pin 97 of IC301, 5VA supply circuit and switches IC5061, 5V_AUDIO supply circuit. ON_33V signal (Power-on: H) is output from pin 188 of IC301 and switches Q3582, 3.3V supply circuit.

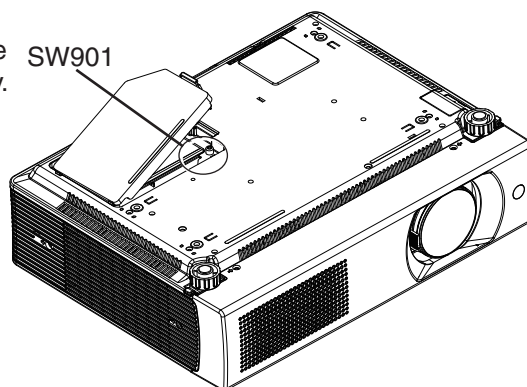
LAMP_DC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.F Control IC, IC631, on the power supply board through PC661.

Lamp_SCI signal (Power-on: H) is output from pin 14 of IC9885 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.

CHO_RXD signal at pin 16 of IC9885 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET/CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

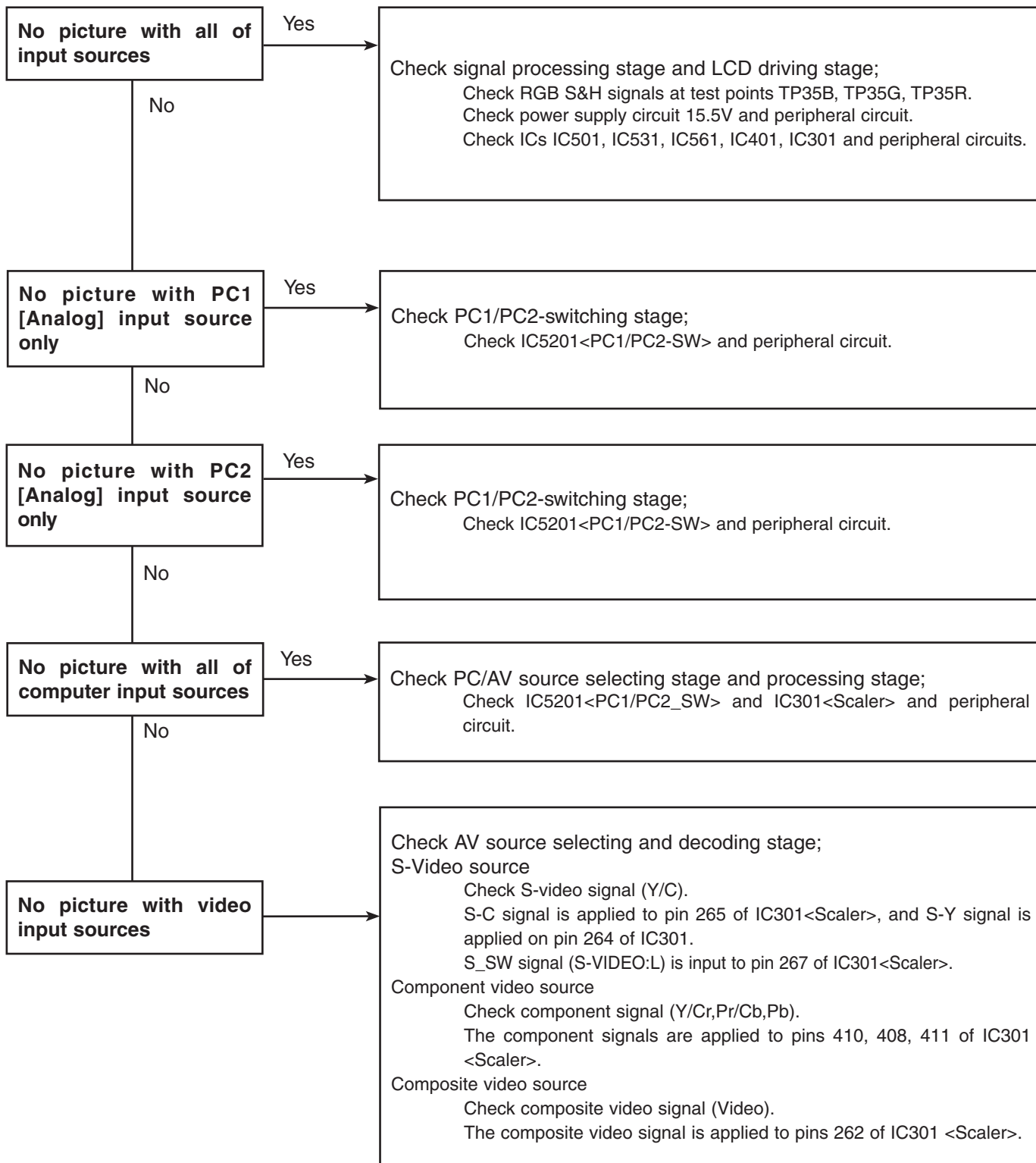
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



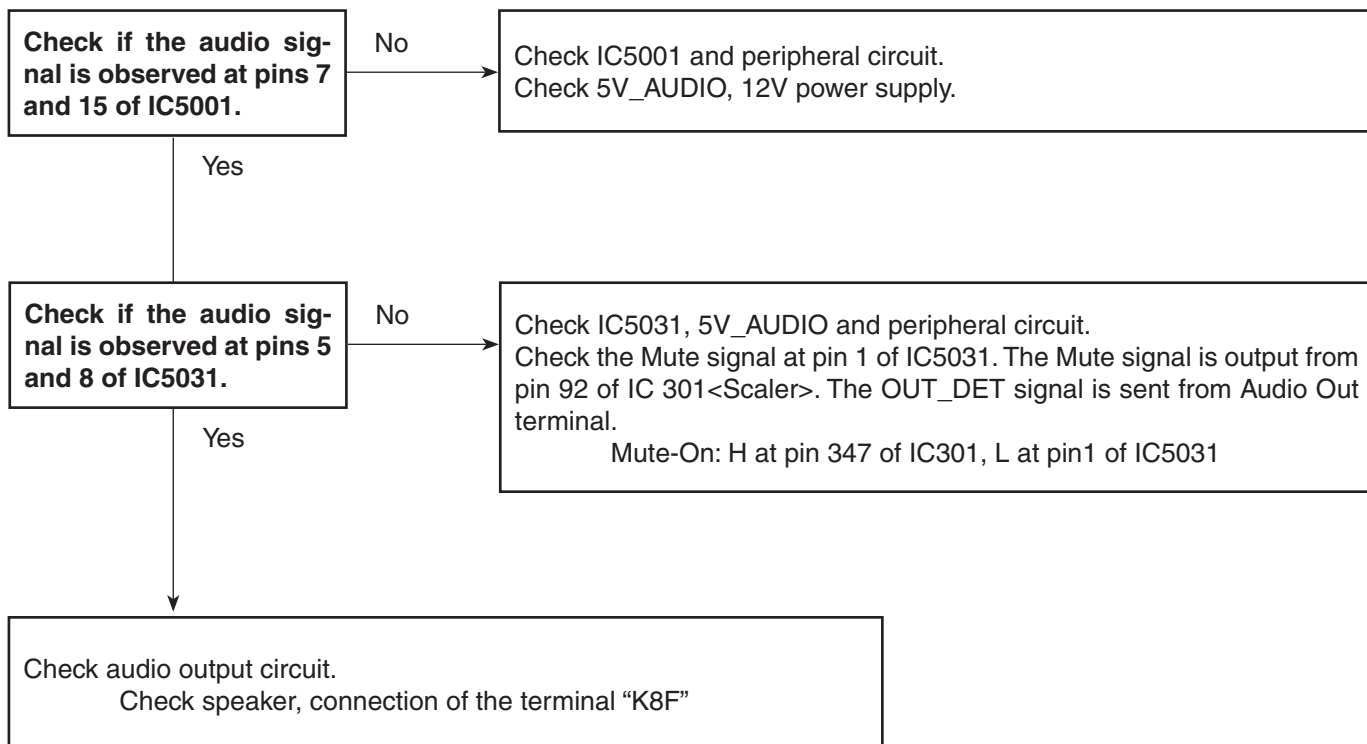
No Picture

Check following steps.



No Sound

Check following steps.



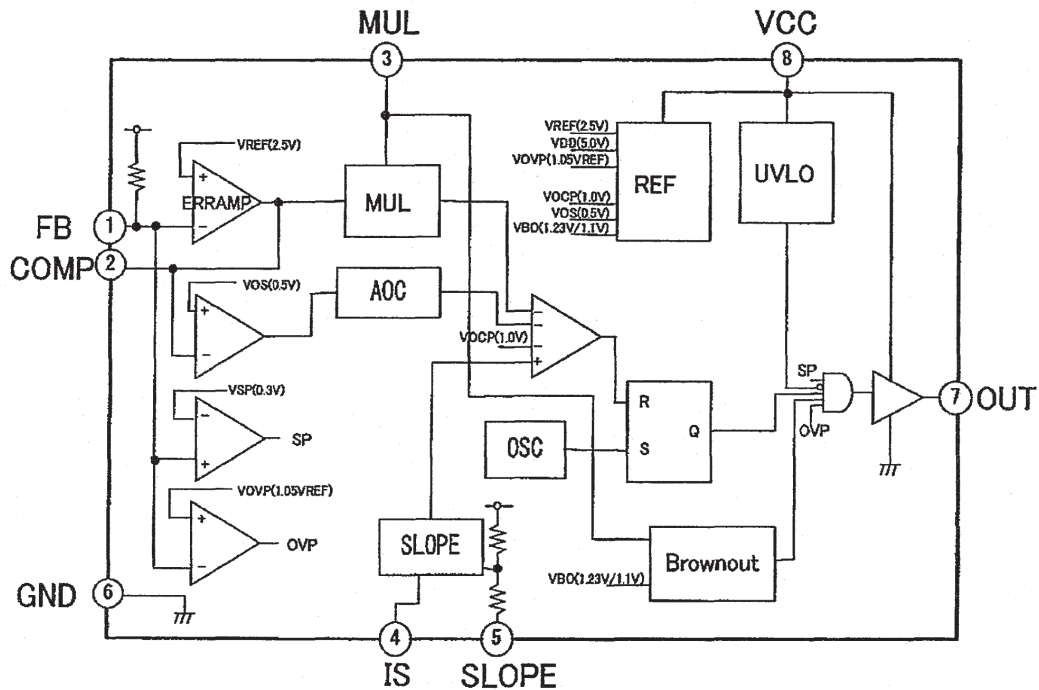
Control Port Functions

Scaler I/O Port Functions (PW190)

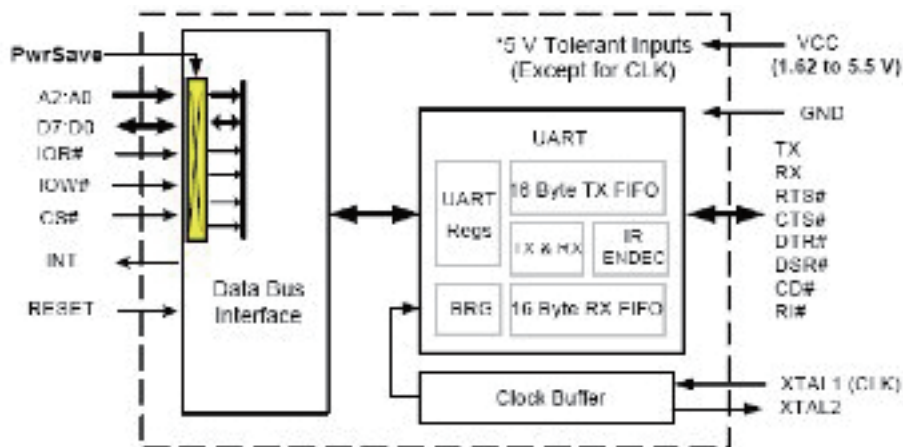
PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
1	A1	PORTD7	DDC_SW3	DDC_SW3	DDC_SW3	O
188	G2	IN1G7		ON_33V	3.3V Power Drive, Power On: H	O
349	H4	IN1B6	DDC_SW1	DDC_SW1	DDC_SW1	O
97	E1	IN1G2		ON_50V	5V Drive On/Off, On: H	O
111	B12	PORTC1		SCS_PW	3-Wired Serial Control	O
124	B25	TXD_PW		TXD_PW	Serial Control TXD	O
201	C11	PORTC7		ON_150V	15V Power Driver, Power On: H	O
202	C12	PORTC2		SDATA_PW	3-Wired Serial Control Data	O
208	C18	TWOWSD2	2-Wire Serial Data 2	SDA2	IIC Bus Control Data	O
211	C21	TWOWSC1	2-Wire Serial Clock 1	SCL	IIC Bus Control Clock	O
212	C22	TWOWSD0	2-Wire Serial Data 0	SDA	IIC Bus Control Data	O
28	C26	ADC1	ADC1	KEY1	Key Control Input	I
344	N4	PORTC7		MUTE	Sound Mute Drive, Mute On: H	O
288	D15	DHS	DHS	PW_DHS	H-Sync. Output	O
290	D17	TWOWSC2	2-Wire Serial Clock 2	SCL2	IIC Bus Control Clock	O
293	D20	TWOWSC0	2-Wire Serial Clock 0	SCL0	IIC Bus Control Clock	O
294	D21	TWOWSD1	2-Wire Serial Data 1	SDA1	IIC Bus Control Data	O
190	E2	FAN_SW1		FAN_SW1	Fan Control Switch	O
215	D24	ADC0	ADC0	P_FAIL	Power Failure Signal Input, Failure:L	I
126	D25	ADC2	ADC2	KEY2	Key Control Input	I
29	D26	ADC6	ADC6	LAMP Option	Lamp Option	I
362	E14	PORTC4		IRM_RST	L3E07110 Reset	O
368	E20	RXD_PW		RXD_PW	Serial Control RXD	I
370	E22	ADC5		P_FAIL_FAN	Power Failure Signal Input, Failure:L	I
373	H22	DAC0	DAC0	FAN_CON_C	Fan C Voltage Control	O
298	F23	ADC4	ADC4	BRAND Option	Option Switch BRAND	I
128	F25	DAC2	DAC2	FAN_CON_B	Fan B Voltage Control	O
284	D11	PORTB4		BLAST_AC	Lamp Cotrol, Lamp On:H	O
99	C1	IN1R5		READY_LED	READY LED Drive, On: H	O
276	D3	IN1R3		TEMP_LED	Temp Driver On: H	O
352	E4	IN1R4		Lamp_LED	LAMP REPLACE LED Drive, On: H	O
353	E5	IN1R2		POWER_LED	POWER LED Drive, On: H	O

IC Block Diagrams

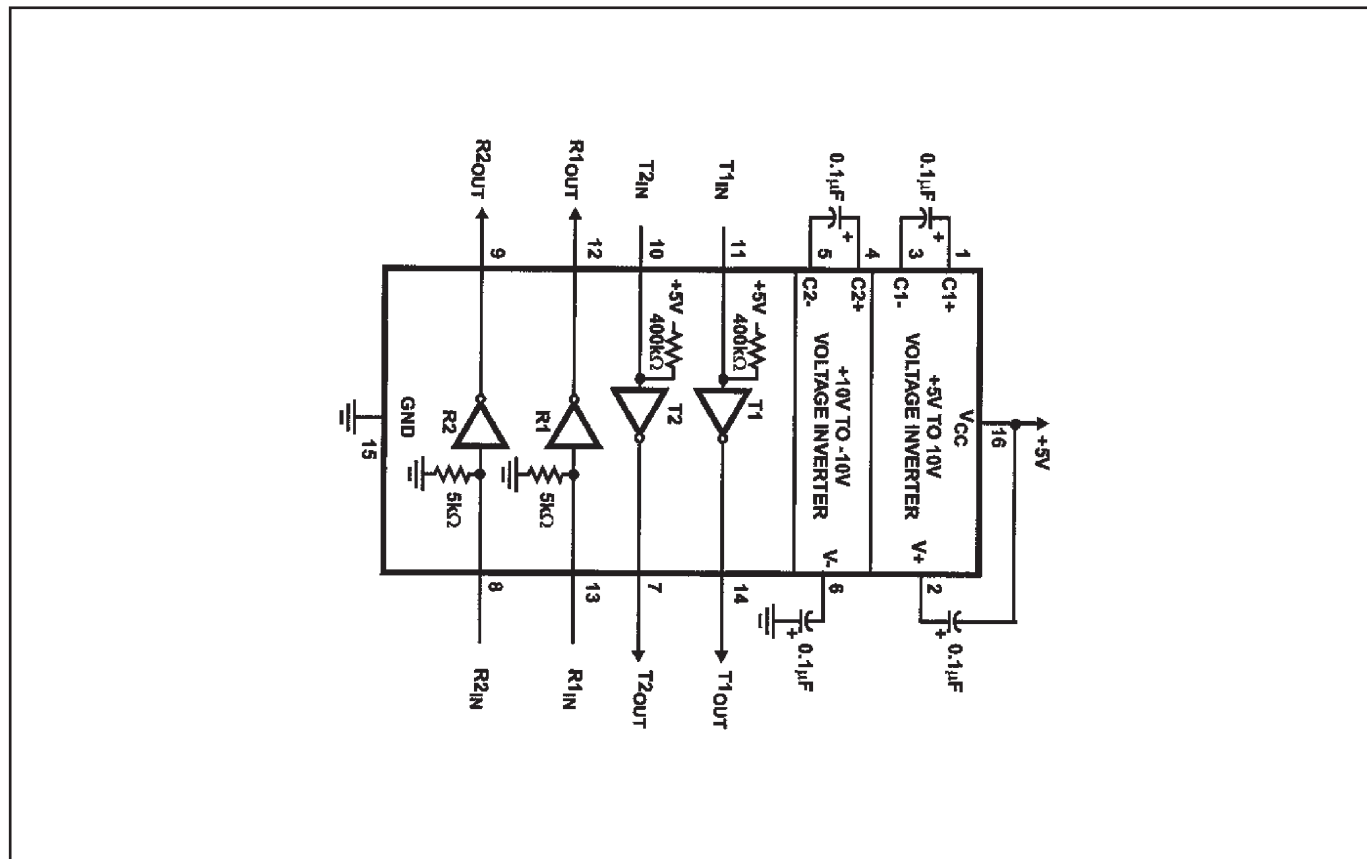
● FA5550NG <P.F. Control, IC621>



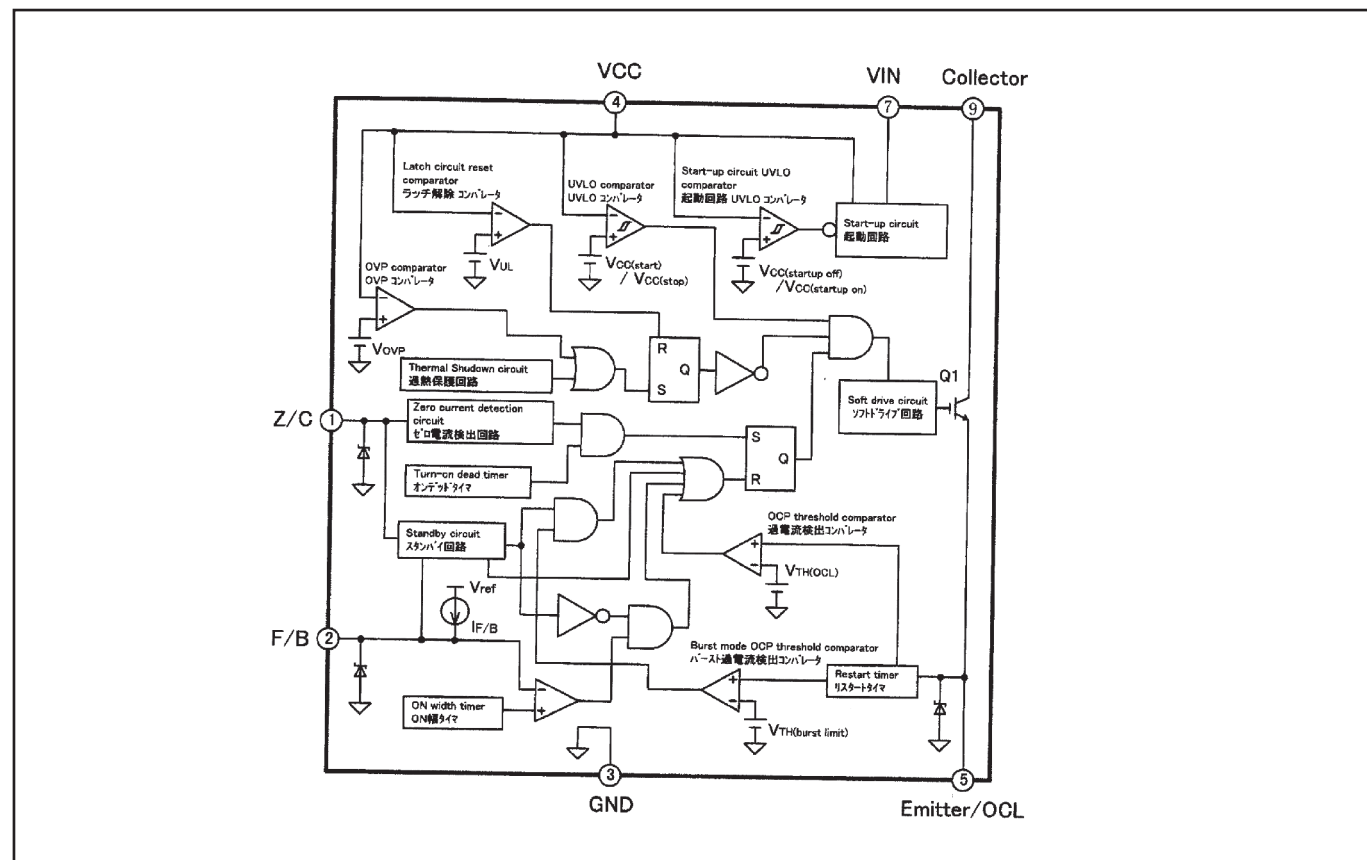
● LC87F2G08A5AN6 <UART, IC9885>



● MAX232ECPWRP <RS-232C Driver, IC3801>

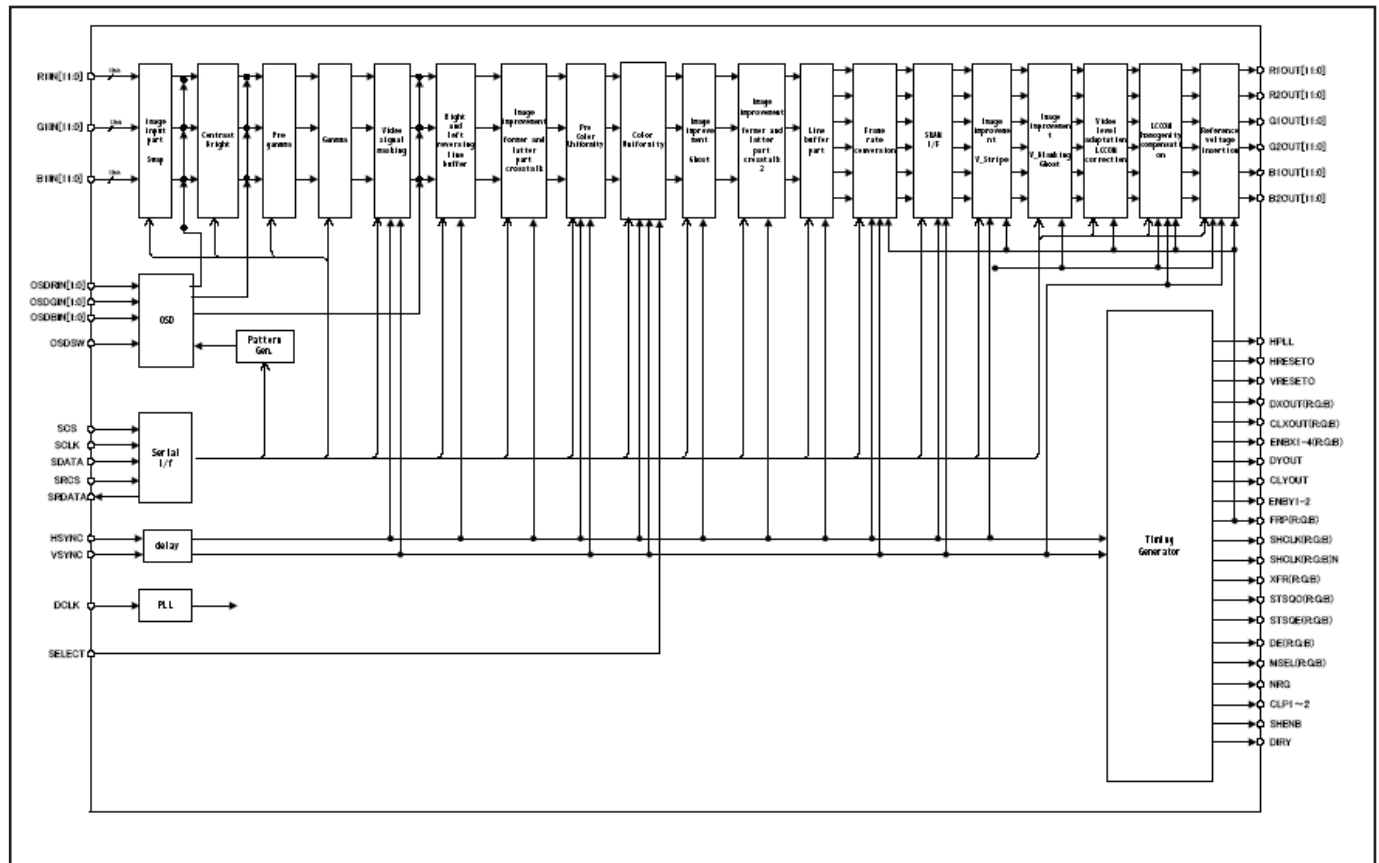


● MR4010 <Power OSC, IC631>

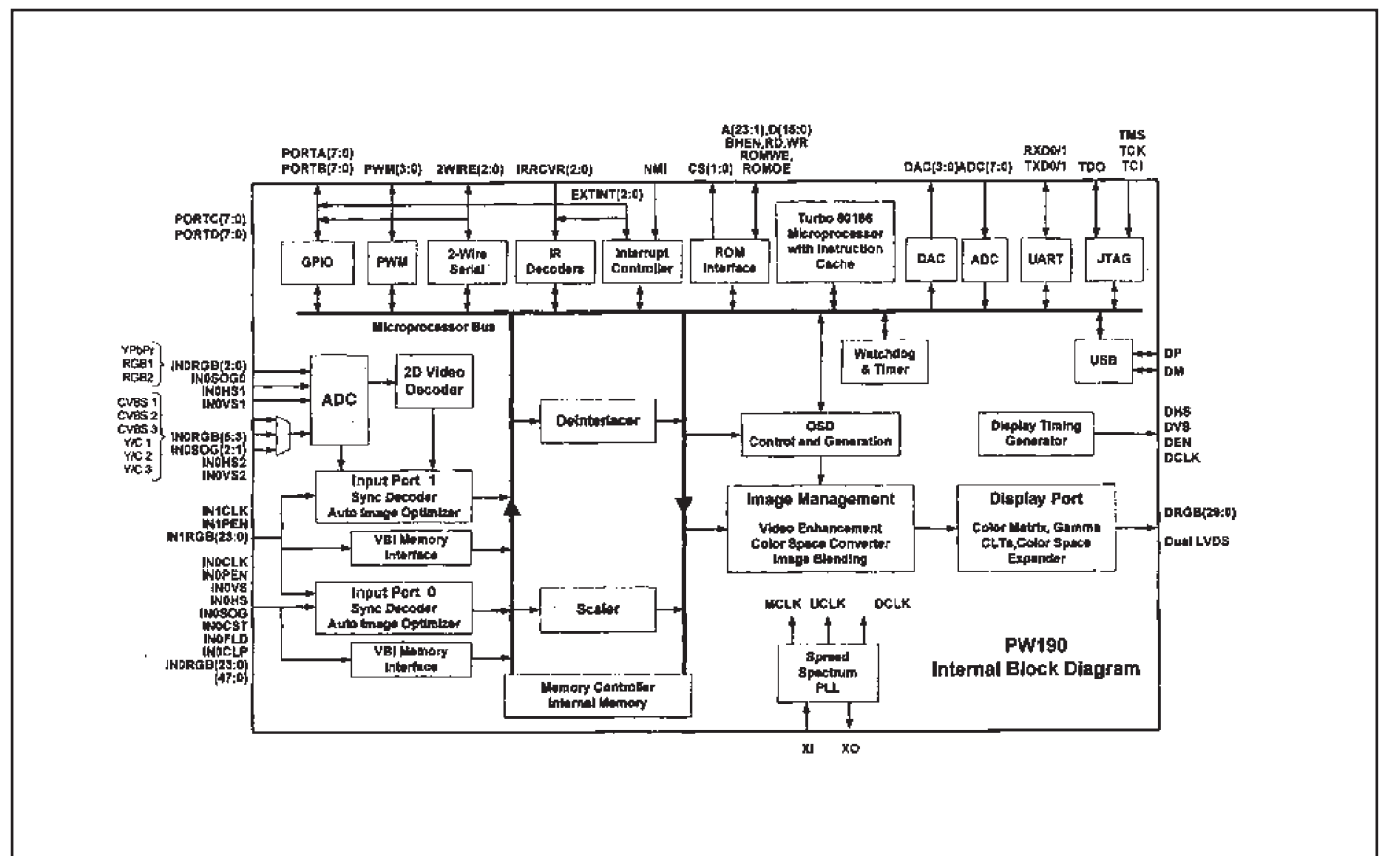




● L3E07111 <LCD Driver & Gamma Correction, IC401>



● PW190 <Scaler, IC301>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.

Components indicated by a \triangle mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
D : $\pm 0.5\text{pF}$ E : $+0 -1\text{pF}$ F : $\pm 1\text{PF}$
G : $\pm 2\text{pF}$ H : $+0.1 -0\text{pF}$ L : $+0 -0.1\text{pF}$
R : $\pm 0.25 -0\text{pF}$ S : $+0 -0.25\text{pF}$

More than 10pF

A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
P : $+100 -0\%$ Q : $+30 -10\%$ T : $+50 -10\%$
U : $+75 -10\%$ V : $+20 -10\%$ W : $+100 -10\%$
X : $+40 -20\%$ Y : $+150 -10\%$ Z : $+80 -20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Oxide Solid Electrolytic
AL-SOLID..... Aluminium Solid Electrolytic
ELECT..... Aluminum Foil Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID..... Polymerized Organic Semiconductive
DL-ELECT..... Double Layered Electrolytic
PPS-FILM..... Polyphenylene Sulfide Film
MT-PPS-FILM..... Metalized Polyphenylene Sulfide Film
MT-PEN-FILM..... Metalized Polyethylenenaphthalate Film
CAPACITOR..... Other

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T : $\pm 10\text{ppm}/^\circ\text{C}$ U : $\pm 25\text{ppm}/^\circ\text{C}$ C : $\pm 50\text{ppm}/^\circ\text{C}$
D : $\pm 100\text{ppm}/^\circ\text{C}$ E : $\pm 200\text{ppm}/^\circ\text{C}$ F : $\pm 250\text{ppm}/^\circ\text{C}$
G : $\pm 350\text{ppm}/^\circ\text{C}$ H : $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W : $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
Y : $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J : $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K : $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
L : $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M : $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N : $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
P : $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q : $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R : $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
S : $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V : $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X : $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$

Tolerance Symbols:

A : $\pm 0.05\%$ B : $\pm 0.1\%$ C : $\pm 0.25\%$ D : $\pm 0.5\%$
F : $\pm 1\%$ G : $\pm 2\%$ J : $\pm 5\%$ K : $\pm 10\%$
M : $\pm 20\%$ P : $+5 -15\%$ Z : 0 ohm

Rated value, ohms:

K: 1,000, M: 1,000,000

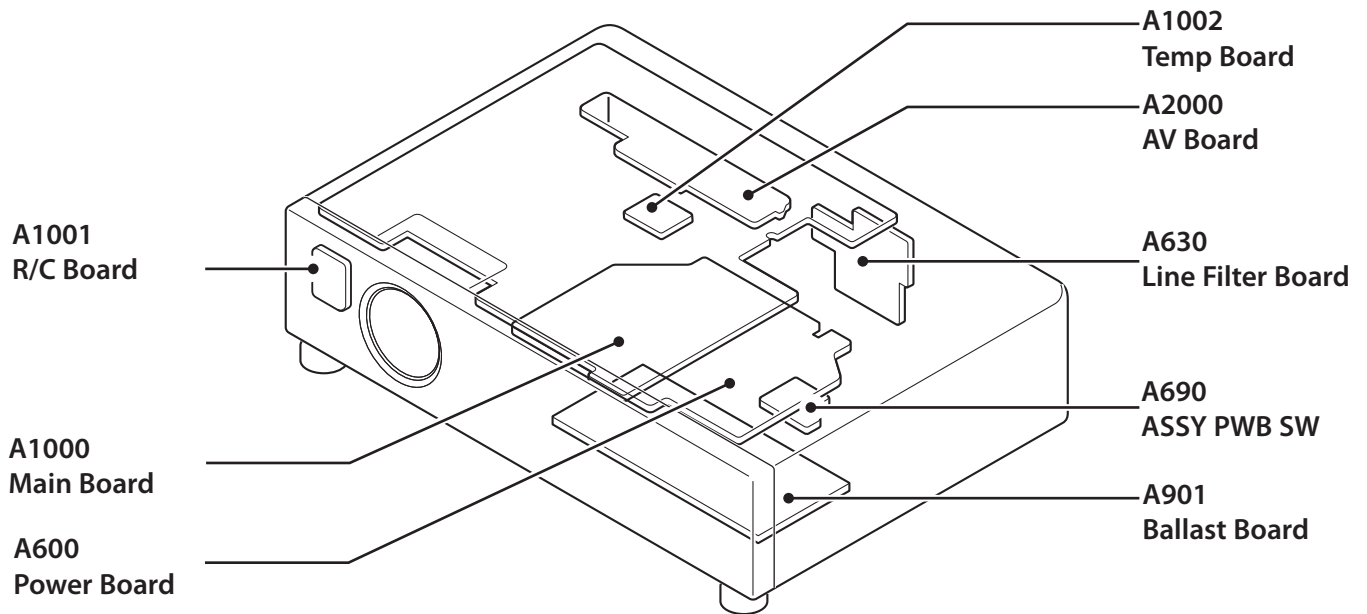
Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES... Fusible
RESISTOR Other

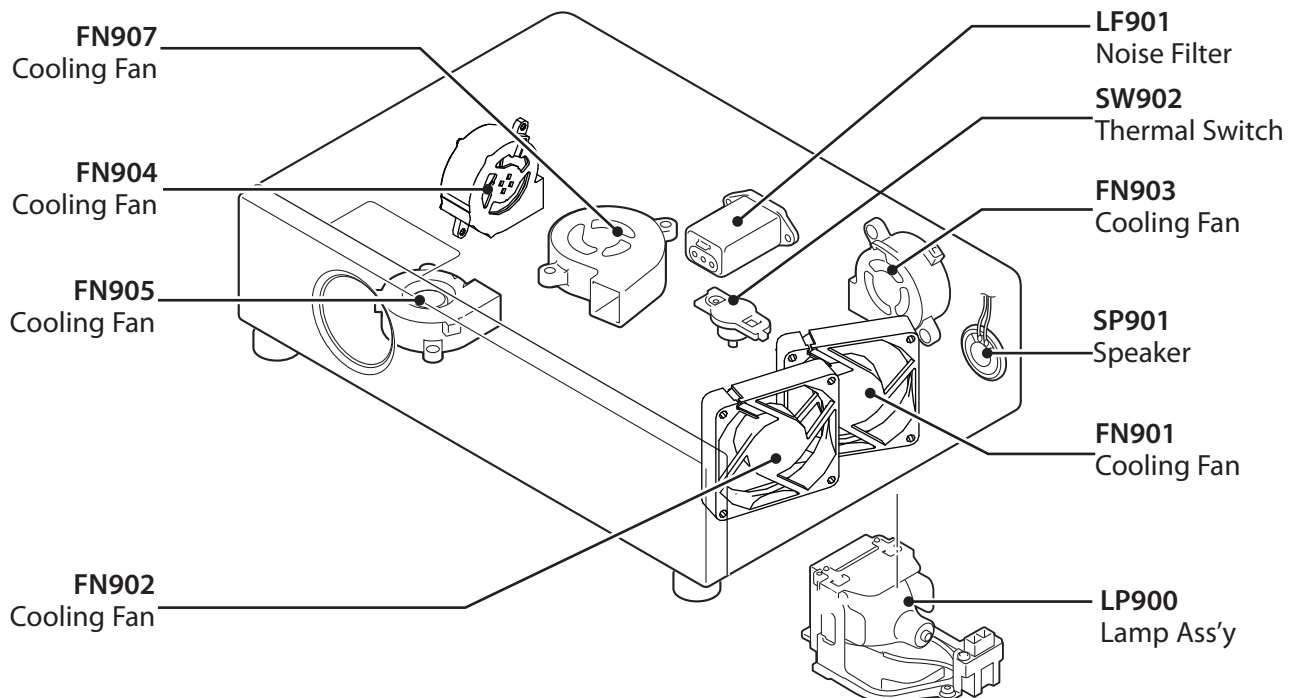
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● Out Of Circuit Board



Electrical Parts List

Electrical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description	Key No.	Part No.	Description
ASSEMBLED BOARDS					
△A1000	655 003 1228	ASSY,PWB,MAIN KB8AC	Q5035	405 221 7914	TR HN1C01FE-Y
△A1001	655 003 1211	ASSY,PWB,R/C	Q5061	405 221 7914	TR HN1C01FE-Y
△A1002	655 003 2485	ASSY,PWB,TEMP KB8AC	Q5062	405 221 7914	TR HN1C01FE-Y
△A2000	655 003 1204	ASSY,PWB,AV	Q5702	305 047 9010	TR 2SB1204-S-TL-E
△A690	655 003 1198	ASSY,PWB SW	Q5703	305 014 4512	TR 2SC2412K T146 R
△A600	655 003 1174	ASSY,PWB,POWER		305 014 4611	TR 2SC2412K T146 S
△A630	655 003 1167	ASSY,PWB,LINE FILTER		305 015 8727	TR 2SC2812-L6-TB
OUT OF CIRCUIT BOARD				305 015 8925	TR 2SC2812-L7-TB
△A901	645 093 3134	UNIT,BALLAST+CV		305 163 1615	TR 2SC2812N-L6-TB0
L901	945 023 4959	CORE,CLAMP		305 173 9816	TR 2SC3928A1R
△LF901	645 091 5765	UNIT,NOISE FILTER		305 173 9915	TR 2SC3928A1S
△LP900	610 333 9740	COMPL,OPTICAL LAMP KM6AC	Q5751	305 217 6917	TR TPC6107 TE85L
△FN901	645 101 9660	MOTOR,FAN DC	Q5752	406 021 7804	TR 2SC4617
△FN902	645 101 9660	MOTOR,FAN DC	Q6841	405 221 7914	TR HN1C01FE-Y
△FN903	645 095 8953	MOTOR,BLW DC	Q6843	405 221 7914	TR HN1C01FE-Y
△FN904	645 100 1887	MOTOR,BLW DC	Q7801	405 221 7914	TR HN1C01FE-Y
△FN905	945 079 2145	MOTOR,BLW DC	Q7802	405 221 7914	TR HN1C01FE-Y
△FN907	945 079 2145	MOTOR,BLW DC	Q7812	305 217 8515	TR RSQ025P03-TR
SP901	652 002 3055	SPEAKER,8	Q7813	305 217 7815	TR HN1B04FE-Y TE85L
	652 002 4397	SPEAKER,8	Q7814	305 217 7815	TR HN1B04FE-Y TE85L
△SW902	945 048 3159	SWITCH,THERMAL(100DEG)	Q7842	305 217 7815	TR HN1B04FE-Y TE85L
655 003 1228 ASSY,PWB,MAIN KB8AC			Q7862	305 217 8515	TR RSQ025P03-TR
TRANSISTOR			Q7864	305 217 7815	TR HN1B04FE-Y TE85L
Q1012	406 021 7804	TR 2SC4617	INTEGRATED CIRCUIT		
Q1021	406 021 7804	TR 2SC4617	IC1031	409 697 3913	IC LE24C023M-TLM-E
Q1031	305 217 7815	TR HN1B04FE-Y TE85L	IC1051	409 697 3913	IC LE24C023M-TLM-E
Q1041	305 217 7815	TR HN1B04FE-Y TE85L	IC1303	310 479 4004	IC TC7WBD125AFK
Q1051	305 134 5928	TR 2SA1037AK-T146-R	IC1371	410 656 8600	IC 24AA64T-I/MS
	305 147 2218	TR 2SA1037AK-S-T146	IC1422	309 431 4424	IC M62334FP-DF5Q
	305 173 9618	TR 2SA1235A1E	IC1424	410 666 5804	IC UPC358GR-9LG-E1-A
	305 173 9717	TR 2SA1235A1F	IC2301	409 700 7013	IC PW610-10GX
	405 220 3115	TR ISA1235AC1E	IC2371	409 685 9415	IC MP2307DN
	405 220 3016	TR ISA1235AC1F	IC2381	309 673 9819	IC PQ070XNA1ZPH
Q1061	406 021 7804	TR 2SC4617	IC2391	310 595 8009	IC PQ1LAX95MSPQ
Q1062	406 021 7804	TR 2SC4617	IC301	309 670 8419	IC PW190-10L
Q1421	305 134 5928	TR 2SA1037AK-T146-R	IC302	309 487 5727	IC TC7SZ125FU
	305 147 2218	TR 2SA1037AK-S-T146	IC3801	409 699 2815	IC MAX232ECPWR
	305 173 9618	TR 2SA1235A1E	IC3852	309 246 9710	IC LA6358NM-TE-L-E
	305 173 9717	TR 2SA1235A1F	IC4891	309 395 5915	IC TC7SH00FU-(TE85L)
	405 220 3115	TR ISA1235AC1E	IC5001	409 683 5716	IC NJW1156AV
	405 220 3016	TR ISA1235AC1F	IC5031	309 594 1916	IC LM4889MMX
Q1422	406 021 7804	TR 2SC4617	IC5061	309 578 6210	IC PQ1M505M2SPQ
Q2001	406 021 7804	TR 2SC4617	IC5081	309 578 6210	IC PQ1M505M2SPQ
Q2011	406 021 7804	TR 2SC4617	IC5542	410 656 8501	IC XC6216BC02MR
Q2021	406 021 7804	TR 2SC4617	IC5621	410 651 0104	IC R1131D101B-TR-F
Q2071	406 021 7804	TR 2SC4617	IC5821	409 689 2115	IC MP2106DK
Q2371	305 217 6917	TR TPC6107 TE85L	IC5841	309 598 5217	IC TAR5S25
Q2372	406 021 7804	TR 2SC4617	IC5861	409 689 2115	IC MP2106DK
Q3582	305 217 6917	TR TPC6107 TE85L	IC592	309 461 7822	IC PQ20WZ11
Q3583	406 021 7804	TR 2SC4617	IC7811	309 675 1316	IC FA7703V-H1
Q3601	406 021 7804	TR 2SC4617	IC7841	309 461 7822	IC PQ20WZ11
Q3602	406 021 7804	TR 2SC4617	IC801	410 693 5105	IC M29W640FT70N6EK8AC
Q3801	305 191 5814	TR 3LN01C-TB-E	IC841	410 647 7902	IC MCP103T-300
Q5031	405 221 7914	TR HN1C01FE-Y	IC8801	410 696 5201	IC PIC18F67J60-I/PT-KB8AC
Q5033	406 021 7804	TR 2SC4617	IC8802	410 656 8600	IC 24AA64T-I/MS
			IC8803	410 681 5506	IC LE25FU106BMA-TLM-H
			CAPACITOR		
			C1011	303 454 0415	CERAMIC 0.068U K 16V
				303 442 0519	CERAMIC 0.068U K 16V
			C1013	303 453 8917	CERAMIC 0.1U K 16V
				303 453 8610	CERAMIC 0.1U K 16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C1014	303 409 3426	CERAMIC	0.1U K	16V	C1432	303 409 3426	CERAMIC	0.1U K	16V
	303 454 0415	CERAMIC	0.068U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 442 0519	CERAMIC	0.068U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C1021	303 372 7510	CERAMIC	2.2U K	6.3V	C1441	303 409 3426	CERAMIC	0.1U K	16V
C1022	303 358 3215	CERAMIC	10U K	6.3V		303 401 3810	ELECT	10U M	25V
	303 370 0018	CERAMIC	10U K	6.3V		303 424 1510	ELECT	10.0U M	25V
	303 368 7319	CERAMIC	10U K	6.3V	C1442	303 396 9613	CERAMIC	1U K	25V
C1031	303 433 1112	CERAMIC	1U K	10V		303 397 7618	CERAMIC	1U K	25V
C1032	303 433 1112	CERAMIC	1U K	10V		403 478 5912	CERAMIC	1U K	25V
C1033	303 433 1112	CERAMIC	1U K	10V	C1871	303 433 1112	CERAMIC	1U K	10V
C1041	303 453 8917	CERAMIC	0.1U K	16V		303 358 3215	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 370 0018	CERAMIC	10U K	6.3V
	303 409 3426	CERAMIC	0.1U K	16V	C2001	303 368 7319	CERAMIC	10U K	6.3V
C1042	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C2002	303 409 3426	CERAMIC	0.1U K	16V
C1043	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C2011	303 409 3426	CERAMIC	0.1U K	16V
C1050	303 433 1112	CERAMIC	1U K	10V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2012	303 409 3426	CERAMIC	0.1U K	16V
C1051	303 409 3426	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C2021	303 409 3426	CERAMIC	0.1U K	16V
C1052	303 433 1112	CERAMIC	1U K	10V		303 358 3215	CERAMIC	10U K	6.3V
	303 433 1112	CERAMIC	1U K	10V		303 370 0018	CERAMIC	10U K	6.3V
	303 294 6110	CERAMIC	100P J	50V	C2022	303 368 7319	CERAMIC	10U K	6.3V
C1054	403 456 4616	CERAMIC	27P J	50V		303 453 8917	CERAMIC	0.1U K	16V
	303 309 2519	CERAMIC	27P J	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 6814	CERAMIC	68P J	50V	C2071	303 409 3426	CERAMIC	0.1U K	16V
C1056	303 454 0019	CERAMIC	68P J	50V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C1057	303 453 8610	CERAMIC	0.1U K	16V	C2072	303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 372 7510	CERAMIC	2.2U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V	C2073	303 453 8917	CERAMIC	0.1U K	16V
C1091	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 370 0018	CERAMIC	10U K	6.3V		303 409 3426	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V	C2301	303 433 1112	CERAMIC	1U K	10V
C1301	303 453 8917	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V	C2303	303 276 1911	CERAMIC	22P J	50V
C1331	303 276 1911	CERAMIC	22P J	50V		303 309 2519	CERAMIC	27P J	50V
	403 456 4616	CERAMIC	27P J	50V		303 453 8917	CERAMIC	0.1U K	16V
	303 309 2519	CERAMIC	27P J	50V	C2306	303 453 8610	CERAMIC	0.1U K	16V
C1371	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C2307	303 453 8610	CERAMIC	0.1U K	16V
C1421	303 433 1112	CERAMIC	1U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2308	303 453 8610	CERAMIC	0.1U K	16V
C1422	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2309	303 453 8610	CERAMIC	0.1U K	16V
C1423	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2311	303 453 8610	CERAMIC	0.1U K	16V
C1424	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2312	303 453 8610	CERAMIC	0.1U K	16V
C1427	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2313	303 453 8610	CERAMIC	0.1U K	16V
C1428	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2314	303 453 8610	CERAMIC	0.1U K	16V
C1429	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C2315	303 453 8610	CERAMIC	0.1U K	16V
C1431	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V					

-70-

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C2366	303 453 8917	CERAMIC	0.1U K	16V	C309	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C2367	303 453 8917	CERAMIC	0.1U K	16V	C310	303 230 3616	TA-SOLID	47U M	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 384 4712	TA-SOLID	47U M	6.3V
	303 409 3426	CERAMIC	0.1U K	16V	C311	303 453 8719	CERAMIC	470P K	50V
C2368	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V	C312	303 453 8917	CERAMIC	0.1U K	16V
C2369	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C313	303 453 8917	CERAMIC	0.1U K	16V
C2371	403 455 1616	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	403 478 5813	CERAMIC	10U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C2372	403 455 1616	CERAMIC	10U K	16V	C314	303 453 8719	CERAMIC	470P K	50V
	403 478 5813	CERAMIC	10U K	16V		303 453 9211	CERAMIC	470P K	50V
C2373	303 453 8917	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V	C315	303 230 3616	TA-SOLID	47U M	6.3V
	303 409 3426	CERAMIC	0.1U K	16V		303 384 4712	TA-SOLID	47U M	6.3V
C2374	303 453 8917	CERAMIC	0.1U K	16V	C316	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C2376	303 453 8917	CERAMIC	0.1U K	16V	C317	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C2377	303 450 7012	CERAMIC	47U K	10V	C318	303 453 8917	CERAMIC	0.1U K	16V
C2378	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C319	303 453 8719	CERAMIC	470P K	50V
C2379	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V	C320	303 358 3215	CERAMIC	10U K	6.3V
C2381	303 358 8319	CERAMIC	1U K	10V		303 370 0018	CERAMIC	10U K	6.3V
C2383	303 358 3215	CERAMIC	10U K	6.3V		303 368 7319	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V	C321	303 453 8917	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C2387	303 433 1112	CERAMIC	1U K	10V		303 409 3426	CERAMIC	0.1U K	16V
C2388	303 358 3215	CERAMIC	10U K	6.3V	C322	303 453 8917	CERAMIC	0.1U K	16V
	303 370 0018	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C2389	303 324 6417	CERAMIC	0.022U K	16V	C323	303 453 8719	CERAMIC	470P K	50V
C2891	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V	C324	303 453 8917	CERAMIC	0.1U K	16V
C2892	303 453 7217	CERAMIC	47P J	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 454 1610	CERAMIC	47P J	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 305 8812	CERAMIC	47P J	50V	C326	303 453 8917	CERAMIC	0.1U K	16V
C301	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C327	303 453 8917	CERAMIC	0.1U K	16V
C302	303 230 3616	TA-SOLID	47U M	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 384 4712	TA-SOLID	47U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C303	303 453 8719	CERAMIC	470P K	50V	C328	303 453 8917	CERAMIC	0.1U K	16V
	303 453 9211	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 282 5118	CERAMIC	470P K	50V		303 409 3426	CERAMIC	0.1U K	16V
C304	303 453 8917	CERAMIC	0.1U K	16V	C329	303 453 8719	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
C306	303 453 8917	CERAMIC	0.1U K	16V	C330	403 457 2512	CERAMIC	0.47U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 376 6311	CERAMIC	0.47U K	10V
	303 409 3426	CERAMIC	0.1U K	16V	C331	303 453 8917	CERAMIC	0.1U K	16V
C307	303 453 8719	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 9211	CERAMIC	470P K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 282 5118	CERAMIC	470P K	50V	C332	303 453 8719	CERAMIC	470P K	50V
C308	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V	C333	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V	C352	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C334	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C3521	303 276 3113	CERAMIC	33P J	50V
	303 409 3426	CERAMIC	0.1U K	16V	C3522	303 276 3113	CERAMIC	33P J	50V
C335	303 453 8917	CERAMIC	0.1U K	16V	C3523	303 276 3113	CERAMIC	33P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C3524	303 276 3113	CERAMIC	33P J	50V
	303 409 3426	CERAMIC	0.1U K	16V	C3526	303 276 3113	CERAMIC	33P J	50V
C336	303 453 8719	CERAMIC	470P K	50V	C3527	303 276 3113	CERAMIC	33P J	50V
	303 453 9211	CERAMIC	470P K	50V	C3528	303 276 3113	CERAMIC	33P J	50V
	303 282 5118	CERAMIC	470P K	50V	C353	303 453 8917	CERAMIC	0.1U K	16V
C337	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C3531	303 396 9613	CERAMIC	1U K	25V
C338	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C3532	303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C339	303 453 8917	CERAMIC	0.1U K	16V	C3533	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V	C3534	303 396 9613	CERAMIC	1U K	25V
C341	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C3536	303 381 5316	ELECT	100U M	16V
	303 409 3426	CERAMIC	0.1U K	16V	C3538	303 401 3810	ELECT	10U M	25V
C342	303 453 8917	CERAMIC	0.1U K	16V		303 424 1510	ELECT	10.0U M	25V
	303 453 8610	CERAMIC	0.1U K	16V	C3539	303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
C343	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C354	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C344	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C3541	303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C346	303 453 8917	CERAMIC	0.1U K	16V	C3542	303 276 3113	CERAMIC	33P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C3543	303 276 3113	CERAMIC	33P J	50V
	303 409 3426	CERAMIC	0.1U K	16V	C3544	303 276 3113	CERAMIC	33P J	50V
C347	303 453 8917	CERAMIC	0.1U K	16V	C3546	303 276 3113	CERAMIC	33P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C3547	303 276 3113	CERAMIC	33P J	50V
	303 409 3426	CERAMIC	0.1U K	16V	C3548	303 276 3113	CERAMIC	33P J	50V
C348	303 453 8917	CERAMIC	0.1U K	16V	C3549	303 276 3113	CERAMIC	33P J	50V
	303 453 8610	CERAMIC	0.1U K	16V	C355	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C3501	303 396 9613	CERAMIC	1U K	25V		303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V	C3551	303 276 3113	CERAMIC	33P J	50V
C3502	303 396 9613	CERAMIC	1U K	25V	C3552	303 276 3113	CERAMIC	33P J	50V
	403 478 5912	CERAMIC	1U K	25V	C3553	303 276 3113	CERAMIC	33P J	50V
C3503	303 396 9613	CERAMIC	1U K	25V	C3554	303 276 3113	CERAMIC	33P J	50V
	403 478 5912	CERAMIC	1U K	25V	C3556	303 276 3113	CERAMIC	33P J	50V
C3504	303 396 9613	CERAMIC	1U K	25V	C3557	303 276 3113	CERAMIC	33P J	50V
	403 478 5912	CERAMIC	1U K	25V	C3558	303 276 3113	CERAMIC	33P J	50V
C3506	303 381 5316	ELECT	100U M	16V	C356	303 453 8917	CERAMIC	0.1U K	16V
C3508	303 401 3810	ELECT	10U M	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 424 1510	ELECT	10.0U M	25V		303 409 3426	CERAMIC	0.1U K	16V
C3509	303 396 9613	CERAMIC	1U K	25V	C3561	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V		403 478 5912	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V	C3562	303 396 9613	CERAMIC	1U K	25V
C351	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C3563	303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C3511	303 396 9613	CERAMIC	1U K	25V	C3564	303 396 9613	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V		403 478 5912	CERAMIC	1U K	25V
C3512	303 276 3113	CERAMIC	33P J	50V	C3566	303 381 5316	ELECT	100U M	16V
C3513	303 276 3113	CERAMIC	33P J	50V	C3568	303 401 3810	ELECT	10U M	25V
C3514	303 276 3113	CERAMIC	33P J	50V		303 424 1510	ELECT	10.0U M	25V
C3516	303 276 3113	CERAMIC	33P J	50V	C3569	303 396 9613	CERAMIC	1U K	25V
C3517	303 276 3113	CERAMIC	33P J	50V		303 397 7618	CERAMIC	1U K	25V
C3518	303 276 3113	CERAMIC	33P J	50V		403 478 5912	CERAMIC	1U K	25V
C3519	303 276 3113	CERAMIC	33P J	50V	C357	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C3571	303 396 9613	CERAMIC	1U K	25V	C378	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C3572	303 276 3113	CERAMIC	33P J	50V		303 409 3426	CERAMIC	0.1U K	16V
C3573	303 276 3113	CERAMIC	33P J	50V	C379	303 453 8917	CERAMIC	0.1U K	16V
C3574	303 276 3113	CERAMIC	33P J	50V		303 453 8610	CERAMIC	0.1U K	16V
C3576	303 276 3113	CERAMIC	33P J	50V		303 409 3426	CERAMIC	0.1U K	16V
C3577	303 276 3113	CERAMIC	33P J	50V	C380	303 453 8917	CERAMIC	0.1U K	16V
C3578	303 276 3113	CERAMIC	33P J	50V		303 453 8610	CERAMIC	0.1U K	16V
C3579	303 276 3113	CERAMIC	33P J	50V		303 409 3426	CERAMIC	0.1U K	16V
C358	303 453 8917	CERAMIC	0.1U K	16V	C3801	303 433 1112	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V	C3802	303 433 1112	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V	C3803	303 433 1112	CERAMIC	1U K	10V
C3581	303 276 3113	CERAMIC	33P J	50V	C3804	303 433 1112	CERAMIC	1U K	10V
C3582	303 276 3113	CERAMIC	33P J	50V	C3806	403 455 1012	CERAMIC	1U K	10V
C3583	303 276 3113	CERAMIC	33P J	50V		303 433 1112	CERAMIC	1U K	10V
C3584	303 276 3113	CERAMIC	33P J	50V	C381	303 453 8917	CERAMIC	0.1U K	16V
C3586	303 276 3113	CERAMIC	33P J	50V		303 453 8610	CERAMIC	0.1U K	16V
C3587	303 276 3113	CERAMIC	33P J	50V		303 409 3426	CERAMIC	0.1U K	16V
C3588	303 276 3113	CERAMIC	33P J	50V	C382	303 453 8917	CERAMIC	0.1U K	16V
C3598	303 394 5815	CERAMIC	4.7U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 441 5515	CERAMIC	4.7U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C3599	303 433 1112	CERAMIC	1U K	10V	C383	303 453 8719	CERAMIC	470P K	50V
C361	303 433 1112	CERAMIC	1U K	10V		303 453 9211	CERAMIC	470P K	50V
C362	303 433 1112	CERAMIC	1U K	10V		303 282 5118	CERAMIC	470P K	50V
C3621	403 455 1616	CERAMIC	10U K	16V	C384	303 453 8719	CERAMIC	470P K	50V
	403 478 5813	CERAMIC	10U K	16V		303 453 9211	CERAMIC	470P K	50V
C3622	403 455 1616	CERAMIC	10U K	16V		303 282 5118	CERAMIC	470P K	50V
	403 478 5813	CERAMIC	10U K	16V	C385	303 453 8719	CERAMIC	470P K	50V
C3623	403 455 1616	CERAMIC	10U K	16V		303 453 9211	CERAMIC	470P K	50V
	403 478 5813	CERAMIC	10U K	16V		303 282 5118	CERAMIC	470P K	50V
C3625	403 455 1616	CERAMIC	10U K	16V	C3857	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5813	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C3626	403 455 1616	CERAMIC	10U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	403 478 5813	CERAMIC	10U K	16V	C3858	303 368 7319	CERAMIC	10U K	6.3V
C3627	403 455 1616	CERAMIC	10U K	16V	C3859	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5813	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C363	303 433 1112	CERAMIC	1U K	10V		303 409 3426	CERAMIC	0.1U K	16V
C364	303 454 0613	CERAMIC	0.01U K	50V	C386	303 453 8917	CERAMIC	0.1U K	16V
C365	303 454 0415	CERAMIC	0.068U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 442 0519	CERAMIC	0.068U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C366	303 453 8917	CERAMIC	0.1U K	16V	C3860	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C367	303 453 8917	CERAMIC	0.1U K	16V	C3861	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C368	303 453 8917	CERAMIC	0.1U K	16V	C387	403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V	C401	303 453 8719	CERAMIC	470P K	50V
C369	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V	C402	303 453 8917	CERAMIC	0.1U K	16V
C370	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C403	303 453 8719	CERAMIC	470P K	50V
C371	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V
	303 453 8610	CERAMIC	0.1U K	16V		303 282 5118	CERAMIC	470P K	50V
	303 409 3426	CERAMIC	0.1U K	16V	C404	303 453 8917	CERAMIC	0.1U K	16V
C372	403 457 2512	CERAMIC	0.47U K	10V		303 453 8610	CERAMIC	0.1U K	16V
	303 376 6311	CERAMIC	0.47U K	10V		303 409 3426	CERAMIC	0.1U K	16V
C373	403 457 2512	CERAMIC	0.47U K	10V	C406	303 453 8917	CERAMIC	0.1U K	16V
	303 376 6311	CERAMIC	0.47U K	10V		303 453 8610	CERAMIC	0.1U K	16V
C374	403 457 2512	CERAMIC	0.47U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 376 6311	CERAMIC	0.47U K	10V	C407	303 453 8719	CERAMIC	470P K	50V
C377	303 453 8917	CERAMIC	0.1U K	16V		303 453 9211	CERAMIC	470P K	50V

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C411	303 282 5118	CERAMIC	470P K	50V	C483	303 358 3215	CERAMIC	10U K	6.3V
	303 453 8917	CERAMIC	0.1U K	16V		303 370 0018	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
C412	303 409 3426	CERAMIC	0.1U K	16V	C4891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C413	303 409 3426	CERAMIC	0.1U K	16V	C5001	303 396 9613	CERAMIC	1U K	25V
	303 453 8719	CERAMIC	470P K	50V		303 397 7618	CERAMIC	1U K	25V
	303 453 9211	CERAMIC	470P K	50V		403 478 5912	CERAMIC	1U K	25V
C414	303 282 5118	CERAMIC	470P K	50V	C5002	303 396 9613	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C416	303 409 3426	CERAMIC	0.1U K	16V	C5003	303 398 3312	ELECT	47U M	10V
	303 453 8917	CERAMIC	0.1U K	16V	C5004	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
C417	303 409 3426	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 372 7510	CERAMIC	2.2U K	6.3V	C5005	303 398 3312	ELECT	47U M	10V
	303 453 8719	CERAMIC	470P K	50V	C5009	303 396 9613	CERAMIC	1U K	25V
C421	303 453 9211	CERAMIC	470P K	50V		303 397 7618	CERAMIC	1U K	25V
	303 282 5118	CERAMIC	470P K	50V		403 478 5912	CERAMIC	1U K	25V
	303 433 1112	CERAMIC	1U K	10V	C501	303 298 9612	CERAMIC	0.1U K	16V
C422	303 453 8719	CERAMIC	470P K	50V	C5011	303 394 5815	CERAMIC	4.7U K	16V
C423	303 453 9211	CERAMIC	470P K	50V		303 441 5515	CERAMIC	4.7U K	16V
C424	303 282 5118	CERAMIC	470P K	50V	C5012	303 394 5815	CERAMIC	4.7U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 441 5515	CERAMIC	4.7U K	16V
	303 433 1112	CERAMIC	1U K	10V	C5013	303 394 5815	CERAMIC	4.7U K	16V
C426	303 453 8719	CERAMIC	470P K	50V		303 441 5515	CERAMIC	4.7U K	16V
C427	303 453 9211	CERAMIC	470P K	50V	C5014	303 396 9613	CERAMIC	1U K	25V
C431	303 282 5118	CERAMIC	470P K	50V		303 397 7618	CERAMIC	1U K	25V
	303 453 8719	CERAMIC	470P K	50V		403 478 5912	CERAMIC	1U K	25V
	303 453 9211	CERAMIC	470P K	50V	C502	303 453 8917	CERAMIC	0.1U K	16V
C432	303 282 5118	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C5021	303 396 9613	CERAMIC	1U K	25V
C433	303 409 3426	CERAMIC	0.1U K	16V		303 397 7618	CERAMIC	1U K	25V
	303 453 8719	CERAMIC	470P K	50V		403 478 5912	CERAMIC	1U K	25V
	303 453 9211	CERAMIC	470P K	50V	C5022	303 396 9613	CERAMIC	1U K	25V
C434	303 282 5118	CERAMIC	470P K	50V		303 397 7618	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C5024	403 455 1616	CERAMIC	10U K	16V
C436	303 409 3426	CERAMIC	0.1U K	16V		403 478 5813	CERAMIC	10U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C503	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C437	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V	C5031	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C438	303 409 3426	CERAMIC	0.1U K	16V	C5032	303 336 3510	CERAMIC	0.47U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		403 459 8017	CERAMIC	0.47U K	16V
C439	303 433 1112	CERAMIC	1U K	10V	C5033	303 433 1112	CERAMIC	1U K	10V
C441	403 455 1616	CERAMIC	10U K	16V	C5037	303 433 1112	CERAMIC	1U K	10V
C442	403 478 5813	CERAMIC	10U K	16V	C5038	303 454 0613	CERAMIC	0.01U K	50V
	303 433 1112	CERAMIC	1U K	10V	C5039	303 454 0613	CERAMIC	0.01U K	50V
	303 453 8719	CERAMIC	470P K	50V	C504	303 453 8917	CERAMIC	0.1U K	16V
C443	303 453 9211	CERAMIC	470P K	50V		303 453 8610	CERAMIC	0.1U K	16V
C480	303 282 5118	CERAMIC	470P K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 358 3215	CERAMIC	10U K	6.3V	C5044	303 454 0613	CERAMIC	0.01U K	50V
	303 370 0018	CERAMIC	10U K	6.3V	C506	303 298 9612	CERAMIC	0.1U K	16V
C4808	303 368 7319	CERAMIC	10U K	6.3V	C5061	403 455 1616	CERAMIC	10U K	16V
	303 358 3215	CERAMIC	10U K	6.3V		403 478 5813	CERAMIC	10U K	16V
	303 370 0018	CERAMIC	10U K	6.3V	C5069	403 455 1616	CERAMIC	10U K	16V
C481	303 368 7319	CERAMIC	10U K	6.3V		403 478 5813	CERAMIC	10U K	16V
	303 358 3215	CERAMIC	10U K	6.3V	C507	403 455 1616	CERAMIC	10U K	16V
	303 370 0018	CERAMIC	10U K	6.3V		403 478 5813	CERAMIC	10U K	16V
C482	303 368 7319	CERAMIC	10U K	6.3V	C508	303 401 4312	ELECT	47U M	25V
	303 358 3215	CERAMIC	10U K	6.3V		303 419 5219	ELECT	47.0UM	25V
	303 370 0018	CERAMIC	10U K	6.3V	C5081	303 453 8917	CERAMIC	0.1U K	16V
	303 368 7319	CERAMIC	10U K	6.3V		303 453 8610	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C5082	303 409 3426	CERAMIC	0.1U K	16V	C524	303 342 3313	CERAMIC	0.1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C527	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C5083	303 409 3426	CERAMIC	0.1U K	16V	C528	303 396 9613	CERAMIC	1U K	25V
	303 392 1215	ELECT	47U M	6.3V		403 478 5912	CERAMIC	1U K	25V
C5084	303 453 8917	CERAMIC	0.1U K	16V	C5301	303 358 3215	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 370 0018	CERAMIC	10U K	6.3V
	303 409 3426	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
C5085	303 453 8917	CERAMIC	0.1U K	16V	C5304	303 442 0519	CERAMIC	0.068U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C531	303 298 9612	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C532	303 453 8917	CERAMIC	0.1U K	16V
C5086	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C533	303 453 8917	CERAMIC	0.1U K	16V
C5087	303 381 5613	ELECT	220U M	16V		303 453 8610	CERAMIC	0.1U K	16V
C5088	303 392 1215	ELECT	47U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C5089	303 453 8917	CERAMIC	0.1U K	16V	C5332	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C509	303 397 8219	CERAMIC	2.2U K	25V	C534	303 453 8917	CERAMIC	0.1U K	16V
	403 454 6414	CERAMIC	2.2U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C511	303 397 8219	CERAMIC	2.2U K	25V		303 409 3426	CERAMIC	0.1U K	16V
	403 454 6414	CERAMIC	2.2U K	25V	C536	303 298 9612	CERAMIC	0.1U K	16V
C512	303 396 9613	CERAMIC	1U K	25V	C537	403 455 1616	CERAMIC	10U K	16V
	403 478 5912	CERAMIC	1U K	25V		403 478 5813	CERAMIC	10U K	16V
C513	303 396 9613	CERAMIC	1U K	25V	C538	303 401 4312	ELECT	47U M	25V
	403 478 5912	CERAMIC	1U K	25V		303 419 5219	ELECT	47.0UM	25V
C514	303 396 9613	CERAMIC	1U K	25V	C539	303 397 8219	CERAMIC	2.2U K	25V
	403 478 5912	CERAMIC	1U K	25V		403 454 6414	CERAMIC	2.2U K	25V
C516	303 396 9613	CERAMIC	1U K	25V	C541	303 397 8219	CERAMIC	2.2U K	25V
	403 478 5912	CERAMIC	1U K	25V		403 454 6414	CERAMIC	2.2U K	25V
C517	303 396 9613	CERAMIC	1U K	25V	C542	303 396 9613	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V		403 478 5912	CERAMIC	1U K	25V
C518	303 342 3313	CERAMIC	0.1U K	25V	C543	303 396 9613	CERAMIC	1U K	25V
C519	303 396 9613	CERAMIC	1U K	25V		403 478 5912	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V	C544	303 396 9613	CERAMIC	1U K	25V
C5201	303 381 5217	ELECT	220U M	6.3V		403 478 5912	CERAMIC	1U K	25V
C5203	303 381 5217	ELECT	220U M	6.3V	C546	303 396 9613	CERAMIC	1U K	25V
C5206	303 381 5217	ELECT	220U M	6.3V		403 478 5912	CERAMIC	1U K	25V
C521	303 396 9613	CERAMIC	1U K	25V	C547	303 396 9613	CERAMIC	1U K	25V
	403 478 5912	CERAMIC	1U K	25V		403 478 5912	CERAMIC	1U K	25V
C5211	303 453 8917	CERAMIC	0.1U K	16V	C548	303 342 3313	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C549	303 396 9613	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
C5213	303 453 8917	CERAMIC	0.1U K	16V	C551	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V	C553	303 342 3313	CERAMIC	0.1U K	25V
C5216	303 453 8917	CERAMIC	0.1U K	16V	C554	303 342 3313	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C5542	403 467 0911	CERAMIC	0.1U K	25V
	303 409 3426	CERAMIC	0.1U K	16V	C5543	303 437 4614	CERAMIC	10U K	25V
C5221	303 394 1312	ELECT	100U M	6.3V		403 478 5714	CERAMIC	10U K	25V
	303 387 4917	ELECT	100U M	6.3V	C5544	303 391 5214	ELECT	47U M	16V
C5222	303 433 1112	CERAMIC	1U K	10V	C557	303 396 9613	CERAMIC	1U K	25V
C5223	303 433 1112	CERAMIC	1U K	10V		403 478 5912	CERAMIC	1U K	25V
C5224	303 276 1317	CERAMIC	1000P K	50V	C558	303 396 9613	CERAMIC	1U K	25V
C5226	303 453 8917	CERAMIC	0.1U K	16V		403 478 5912	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C561	303 298 9612	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C5616	303 397 8219	CERAMIC	2.2U K	25V
C5227	303 394 1312	ELECT	100U M	6.3V		403 454 6414	CERAMIC	2.2U K	25V
	303 387 4917	ELECT	100U M	6.3V	C5617	303 394 5815	CERAMIC	4.7U K	16V
C5228	303 453 8917	CERAMIC	0.1U K	16V		303 441 5515	CERAMIC	4.7U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C5619	403 455 1012	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
C5229	303 453 8917	CERAMIC	0.1U K	16V	C562	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C523	303 342 3313	CERAMIC	0.1U K	25V	C5621	303 383 5215	CERAMIC	4.7U K	6.3V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C5623	303 383 5215	CERAMIC	4.7U K	6.3V		403 478 5912	CERAMIC	1U K	25V
C563	303 453 8917	CERAMIC	0.1U K	16V	C596	403 467 0911	CERAMIC	0.1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C597	303 376 3112	ELECT	100U M	25V
	303 409 3426	CERAMIC	0.1U K	16V	C598	403 467 0911	CERAMIC	0.1U K	25V
C564	303 453 8917	CERAMIC	0.1U K	16V	C599	303 376 3112	ELECT	100U M	25V
	303 453 8610	CERAMIC	0.1U K	16V	C6801	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C566	303 298 9612	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C567	403 455 1616	CERAMIC	10U K	16V	C6802	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5813	CERAMIC	10U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C568	303 401 4312	ELECT	47U M	25V		303 409 3426	CERAMIC	0.1U K	16V
	303 419 5219	ELECT	47.0U M	25V	C6803	303 453 8917	CERAMIC	0.1U K	16V
C569	303 397 8219	CERAMIC	2.2U K	25V		303 453 8610	CERAMIC	0.1U K	16V
	403 454 6414	CERAMIC	2.2U K	25V		303 409 3426	CERAMIC	0.1U K	16V
C5705	303 401 4312	ELECT	47U M	25V	C7806	303 433 1112	CERAMIC	1U K	10V
C571	303 397 8219	CERAMIC	2.2U K	25V	C7811	303 397 8219	CERAMIC	2.2U K	25V
	403 454 6414	CERAMIC	2.2U K	25V		403 454 6414	CERAMIC	2.2U K	25V
C572	303 396 9613	CERAMIC	1U K	25V	C7812	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C573	303 396 9613	CERAMIC	1U K	25V		303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V	C7813	303 381 5316	ELECT	100U M	16V
C574	303 396 9613	CERAMIC	1U K	25V	C7817	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C5751	303 382 7814	CERAMIC	2.2U K	10V		303 409 3426	CERAMIC	0.1U K	16V
	303 394 5211	CERAMIC	2.2U K	10V	C7818	303 454 1917	CERAMIC	4700P K	50V
C576	303 396 9613	CERAMIC	1U K	25V	C7841	303 401 4312	ELECT	47U M	25V
	403 478 5912	CERAMIC	1U K	25V	C7842	403 467 0911	CERAMIC	0.1U K	25V
C577	303 396 9613	CERAMIC	1U K	25V	C7843	303 381 5316	ELECT	100U M	16V
	403 478 5912	CERAMIC	1U K	25V		303 369 3211	ELECT	100U M	16V
C578	303 342 3313	CERAMIC	0.1U K	25V	C7844	403 467 0911	CERAMIC	0.1U K	25V
C579	303 396 9613	CERAMIC	1U K	25V	C7863	303 381 5316	ELECT	100U M	16V
	403 478 5912	CERAMIC	1U K	25V	C7868	303 454 1917	CERAMIC	4700P K	50V
C581	303 396 9613	CERAMIC	1U K	25V	C801	303 453 8917	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C5821	303 369 0527	CERAMIC	0.01U K	25V		303 409 3426	CERAMIC	0.1U K	16V
C5822	303 157 7018	CERAMIC	1800P K	50V	C841	303 433 1112	CERAMIC	1U K	10V
C5823	303 369 0527	CERAMIC	0.01U K	25V	C842	303 392 1215	ELECT	47U M	6.3V
C5824	403 455 1616	CERAMIC	10U K	16V		303 387 5310	ELECT	47U M	6.3V
	403 478 5813	CERAMIC	10U K	16V	C843	303 454 0613	CERAMIC	0.01U K	50V
C5825	303 381 5316	ELECT	100U M	16V	C844	303 453 8511	CERAMIC	1000P K	50V
C5826	303 369 0527	CERAMIC	0.01U K	25V		303 454 1214	CERAMIC	1000P K	50V
C5827	303 392 5015	CERAMIC	22U M	6.3V	C8801	303 453 8917	CERAMIC	0.1U K	16V
	403 455 9216	CERAMIC	22U M	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 443 9214	CERAMIC	22U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C583	303 342 3313	CERAMIC	0.1U K	25V	C8802	303 453 8917	CERAMIC	0.1U K	16V
C584	303 342 3313	CERAMIC	0.1U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C5841	303 433 1112	CERAMIC	1U K	10V		303 409 3426	CERAMIC	0.1U K	16V
C5843	303 368 7319	CERAMIC	10U K	6.3V	C8803	303 453 8917	CERAMIC	0.1U K	16V
C5844	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C8806	303 453 8917	CERAMIC	0.1U K	16V
C5860	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C8807	303 453 7019	CERAMIC	33P J	50V
C5861	303 324 6417	CERAMIC	0.022U K	16V		303 453 9617	CERAMIC	33P J	50V
C5862	303 279 5114	CERAMIC	3300P K	50V		303 276 3113	CERAMIC	33P J	50V
C5863	303 369 0527	CERAMIC	0.01U K	25V	C8808	303 453 7019	CERAMIC	33P J	50V
C5864	403 455 1616	CERAMIC	10U K	16V		303 453 9617	CERAMIC	33P J	50V
	403 478 5813	CERAMIC	10U K	16V		303 276 3113	CERAMIC	33P J	50V
C5865	303 381 5316	ELECT	100U M	16V	C8809	303 453 8917	CERAMIC	0.1U K	16V
C5866	303 369 0527	CERAMIC	0.01U K	25V		303 453 8610	CERAMIC	0.1U K	16V
C5867	303 392 5015	CERAMIC	22U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
	403 455 9216	CERAMIC	22U M	6.3V	C8810	303 453 8917	CERAMIC	0.1U K	16V
	303 443 9214	CERAMIC	22U M	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C587	303 396 9613	CERAMIC	1U K	25V		303 409 3426	CERAMIC	0.1U K	16V
	403 478 5912	CERAMIC	1U K	25V	C8811	303 453 8917	CERAMIC	0.1U K	16V
C588	303 396 9613	CERAMIC	1U K	25V		303 453 8610	CERAMIC	0.1U K	16V

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C8812	303 409 3426	CERAMIC	0.1U K	16V	R1033	301 225 1418	MT-GLAZE	47K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1034	301 225 1418	MT-GLAZE	47K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1035	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C8813	303 409 3426	CERAMIC	0.1U K	16V	R1036	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1037	301 225 1210	MT-GLAZE	4.7K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1039	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
C8814	303 409 3426	CERAMIC	0.1U K	16V	R1041	301 224 9019	MT-GLAZE	10K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1042	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1044	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8815	303 409 3426	CERAMIC	0.1U K	16V	R1046	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1047	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1048	301 240 9710	MT-GLAZE	820K JA	1/16W
C8817	303 409 3426	CERAMIC	0.1U K	16V	R1051	301 225 0718	MT-GLAZE	56K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1052	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1053	301 226 2414	MT-GLAZE	560 JA	1/16W
C8818	303 409 3426	CERAMIC	0.1U K	16V	R1054	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1055	301 225 1210	MT-GLAZE	4.7K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1056	301 225 0312	MT-GLAZE	33 JA	1/16W
C8819	303 409 3426	CERAMIC	0.1U K	16V	R1057	301 225 1210	MT-GLAZE	4.7K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1058	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1065	301 224 9019	MT-GLAZE	10K JA	1/16W
C8820	303 409 3426	CERAMIC	0.1U K	16V	R1066	301 224 9019	MT-GLAZE	10K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1067	301 224 9019	MT-GLAZE	10K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1068	301 224 9019	MT-GLAZE	10K JA	1/16W
C8821	303 409 3426	CERAMIC	0.1U K	16V	R1070	301 263 7420	MT-GLAZE	75 JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1077	301 263 7420	MT-GLAZE	75 JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1079	301 263 7420	MT-GLAZE	75 JA	1/16W
C8823	303 409 3426	CERAMIC	0.1U K	16V	R1309	301 225 1210	MT-GLAZE	4.7K JA	1/16W
	303 453 8917	CERAMIC	0.1U K	16V	R1311	301 225 1210	MT-GLAZE	4.7K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1331	301 224 9415	MT-GLAZE	1M JA	1/16W
C8832	303 409 3426	CERAMIC	0.1U K	16V	R1419	301 225 3818	MT-GLAZE	1.5K JA	1/16W
	303 441 9810	CERAMIC	0.01U K	50V	R1420	301 225 0718	MT-GLAZE	56K JA	1/16W
	C9875	303 305 8812	CERAMIC	47P J	50V	R1421	301 294 3313	MT-GLAZE	15K FA
C9878	303 324 6417	CERAMIC	0.022U K	16V	R1424	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C9882	303 453 8917	CERAMIC	0.1U K	16V	R1425	301 294 3313	MT-GLAZE	15K FA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1426	301 299 5411	MT-GLAZE	13K FA	1/16W
	303 409 3426	CERAMIC	0.1U K	16V	R1427	301 224 8814	MT-GLAZE	100 JA	1/16W
C9883	303 392 1215	ELECT	47U M	6.3V	R1428	301 224 8814	MT-GLAZE	100 JA	1/16W
C9884	303 453 8917	CERAMIC	0.1U K	16V	R1435	301 294 4518	MT-GLAZE	18K FA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1444	301 235 0012	MT-GLAZE	7.5K JA	1/16W
	303 409 3426	CERAMIC	0.1U K	16V	R1446	301 235 0012	MT-GLAZE	7.5K JA	1/16W
C9885	303 453 8917	CERAMIC	0.1U K	16V	R1447	301 225 1517	MT-GLAZE	3.9K JA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1448	301 224 9019	MT-GLAZE	10K JA	1/16W
	303 409 3426	CERAMIC	0.1U K	16V	R1458	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C9888	303 442 0212	CERAMIC	0.22U Z	16V	R1459	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C9889	303 453 8917	CERAMIC	0.1U K	16V	R1470	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 453 8610	CERAMIC	0.1U K	16V	R1471	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 409 3426	CERAMIC	0.1U K	16V	R1871	301 224 9019	MT-GLAZE	10K JA	1/16W
RESISTOR					R2000	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R1011	301 224 9316	MT-GLAZE	1K JA	1/16W	R2002	301 225 1418	MT-GLAZE	47K JA	1/16W
R1012	301 224 9316	MT-GLAZE	1K JA	1/16W	R2003	301 225 0718	MT-GLAZE	56K JA	1/16W
R1013	301 225 8110	MT-GLAZE	10 JA	1/16W	R2004	301 225 1319	MT-GLAZE	470 JA	1/16W
R1014	301 225 1418	MT-GLAZE	47K JA	1/16W	R2005	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1015	301 225 0718	MT-GLAZE	56K JA	1/16W	R2006	301 224 9316	MT-GLAZE	1K JA	1/16W
R1020	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2012	301 225 1418	MT-GLAZE	47K JA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W	R2013	301 225 0718	MT-GLAZE	56K JA	1/16W
R1022	301 260 4115	MT-GLAZE	75 JA	1/3W	R2014	301 225 1319	MT-GLAZE	470 JA	1/16W
R1023	301 260 4115	MT-GLAZE	75 JA	1/3W	R2016	301 224 9316	MT-GLAZE	1K JA	1/16W
R1024	301 225 1418	MT-GLAZE	47K JA	1/16W	R2022	301 225 1418	MT-GLAZE	47K JA	1/16W
R1025	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R2023	301 225 0718	MT-GLAZE	56K JA	1/16W
R1026	301 225 1418	MT-GLAZE	47K JA	1/16W	R2024	301 225 1319	MT-GLAZE	470 JA	1/16W
R1027	301 260 4115	MT-GLAZE	75 JA	1/3W	R2026	301 224 9316	MT-GLAZE	1K JA	1/16W
R1028	301 225 1319	MT-GLAZE	470 JA	1/16W	R2036	301 225 8110	MT-GLAZE	10 JA	1/16W
R1029	301 224 9316	MT-GLAZE	1K JA	1/16W	R2037	301 225 8110	MT-GLAZE	10 JA	1/16W
R1031	301 260 4115	MT-GLAZE	75 JA	1/3W	R2038	301 225 8110	MT-GLAZE	10 JA	1/16W
R1032	301 260 4115	MT-GLAZE	75 JA	1/3W	R2039	301 225 8110	MT-GLAZE	10 JA	1/16W
					R2041	301 225 8110	MT-GLAZE	10 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R2042	301 225 8110	MT-GLAZE	10 JA 1/16W	R2386	301 224 9019	MT-GLAZE	10K JA 1/16W
R2043	301 225 8110	MT-GLAZE	10 JA 1/16W	R2387	301 224 9316	MT-GLAZE	1K JA 1/16W
R2044	301 225 8110	MT-GLAZE	10 JA 1/16W	R2388	301 224 9316	MT-GLAZE	1K JA 1/16W
R2046	301 225 8110	MT-GLAZE	10 JA 1/16W	R2389	301 224 9316	MT-GLAZE	1K JA 1/16W
R2047	301 225 8110	MT-GLAZE	10 JA 1/16W	R2390	301 259 7823	MT-GLAZE	20K JA 1/16W
R2071	301 224 8913	MT-GLAZE	100K JA 1/16W	R2391	301 224 9316	MT-GLAZE	1K JA 1/16W
R2072	301 224 8913	MT-GLAZE	100K JA 1/16W	R2392	301 224 9316	MT-GLAZE	1K JA 1/16W
R2073	301 224 9415	MT-GLAZE	1M JA 1/16W	R2393	301 224 9316	MT-GLAZE	1K JA 1/16W
R2074	301 224 9910	MT-GLAZE	22K JA 1/16W	R2395	301 336 8818	MT-GLAZE	6.8K FA 1/16W
R2076	301 224 8814	MT-GLAZE	100 JA 1/16W	R2396	301 294 3016	MT-GLAZE	10K FA 1/16W
R2301	301 225 0312	MT-GLAZE	33 JA 1/16W	R2397	301 294 3016	MT-GLAZE	10K FA 1/16W
R2302	301 224 9019	MT-GLAZE	10K JA 1/16W	R2890	301 258 7517	MT-GLAZE	12 JA 1/3W
R2303	301 224 9019	MT-GLAZE	10K JA 1/16W	R2891	301 258 7517	MT-GLAZE	12 JA 1/3W
R2304	301 224 9316	MT-GLAZE	1K JA 1/16W	R2892	301 224 8814	MT-GLAZE	100 JA 1/16W
R2305	301 224 9019	MT-GLAZE	10K JA 1/16W	R302	301 227 5612	MT-GLAZE	8.2K JA 1/16W
R2306	301 224 9019	MT-GLAZE	10K JA 1/16W	R303	301 224 9316	MT-GLAZE	1K JA 1/16W
R2309	301 224 9019	MT-GLAZE	10K JA 1/16W	R304	301 224 9316	MT-GLAZE	1K JA 1/16W
R2311	301 224 9019	MT-GLAZE	10K JA 1/16W	R305	301 224 9019	MT-GLAZE	10K JA 1/16W
R2313	301 224 9019	MT-GLAZE	10K JA 1/16W	R306	401 342 7314	MT-GLAZE	23.2K FA 1/16W
R2315	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R307	301 224 9712	MT-GLAZE	22 JA 1/16W
R2316	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R308	301 224 9712	MT-GLAZE	22 JA 1/16W
R2317	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R309	301 224 9316	MT-GLAZE	1K JA 1/16W
R2319	301 224 9019	MT-GLAZE	10K JA 1/16W	R311	301 224 9316	MT-GLAZE	1K JA 1/16W
R2322	301 224 9019	MT-GLAZE	10K JA 1/16W	R312	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2324	301 224 9019	MT-GLAZE	10K JA 1/16W	R313	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2326	301 224 9019	MT-GLAZE	10K JA 1/16W	R314	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2327	301 224 9019	MT-GLAZE	10K JA 1/16W	R316	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2329	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R318	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2331	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R319	301 224 9019	MT-GLAZE	10K JA 1/16W
R2332	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R321	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2333	301 224 9712	MT-GLAZE	22 JA 1/16W	R322	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2334	301 224 9712	MT-GLAZE	22 JA 1/16W	R324	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R2335	301 298 5511	MT-GLAZE	8.2K FA 1/16W	R325	301 224 9019	MT-GLAZE	10K JA 1/16W
R2336	301 224 9415	MT-GLAZE	1M JA 1/16W	R329	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2337	301 224 9019	MT-GLAZE	10K JA 1/16W	R339	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2338	301 224 8814	MT-GLAZE	100 JA 1/16W	R340	301 224 8814	MT-GLAZE	100 JA 1/16W
R2339	301 224 9712	MT-GLAZE	22 JA 1/16W	R341	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2341	301 224 9712	MT-GLAZE	22 JA 1/16W	R342	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2342	301 224 9712	MT-GLAZE	22 JA 1/16W	R343	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2343	301 224 9712	MT-GLAZE	22 JA 1/16W	R344	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2344	301 224 9712	MT-GLAZE	22 JA 1/16W	R345	301 225 8110	MT-GLAZE	10 JA 1/16W
R2345	301 224 9712	MT-GLAZE	22 JA 1/16W	R346	301 224 9019	MT-GLAZE	10K JA 1/16W
R2346	301 225 1814	MT-GLAZE	47 JA 1/16W	R347	301 224 8814	MT-GLAZE	100 JA 1/16W
R2347	301 225 1814	MT-GLAZE	47 JA 1/16W	R348	301 224 8814	MT-GLAZE	100 JA 1/16W
R2348	301 224 9712	MT-GLAZE	22 JA 1/16W	R350	301 263 7420	MT-GLAZE	75 JA 1/16W
R2349	301 225 1814	MT-GLAZE	47 JA 1/16W	R3502	301 225 1418	MT-GLAZE	47K JA 1/16W
R2353	301 224 9019	MT-GLAZE	10K JA 1/16W	R351	301 224 8814	MT-GLAZE	100 JA 1/16W
R2356	301 224 9019	MT-GLAZE	10K JA 1/16W	R352	301 224 8814	MT-GLAZE	100 JA 1/16W
R2357	301 224 9019	MT-GLAZE	10K JA 1/16W	R353	301 263 7420	MT-GLAZE	75 JA 1/16W
R2359	301 224 9019	MT-GLAZE	10K JA 1/16W	R3532	301 225 1418	MT-GLAZE	47K JA 1/16W
R2362	301 224 9019	MT-GLAZE	10K JA 1/16W	R354	301 224 8814	MT-GLAZE	100 JA 1/16W
R2365	301 224 9316	MT-GLAZE	1K JA 1/16W	R355	301 224 8814	MT-GLAZE	100 JA 1/16W
R2369	301 259 7823	MT-GLAZE	20K JA 1/16W	R3562	301 225 1418	MT-GLAZE	47K JA 1/16W
R2370	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R357	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2371	301 224 9019	MT-GLAZE	10K JA 1/16W	R3580	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R2372	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3585	301 224 9019	MT-GLAZE	10K JA 1/16W
R2373	301 263 6928	MT-GLAZE	2K JA 1/16W	R3586	301 224 9316	MT-GLAZE	1K JA 1/16W
R2374	301 263 6928	MT-GLAZE	2K JA 1/16W	R3587	301 224 9019	MT-GLAZE	10K JA 1/16W
R2375	301 298 5511	MT-GLAZE	8.2K FA 1/16W	R3588	301 224 9019	MT-GLAZE	10K JA 1/16W
R2376	301 294 4419	MT-GLAZE	1.8K FA 1/16W	R359	301 225 0015	MT-GLAZE	270 JA 1/16W
R2377	301 294 3016	MT-GLAZE	10K FA 1/16W	R360	301 225 0015	MT-GLAZE	270 JA 1/16W
R2378	301 294 3115	MT-GLAZE	1K FA 1/16W	R3601	301 224 9316	MT-GLAZE	1K JA 1/16W
R2379	301 294 3115	MT-GLAZE	1K FA 1/16W	R3602	301 225 0619	MT-GLAZE	5.6K JA 1/16W
R2381	301 224 9019	MT-GLAZE	10K JA 1/16W	R3603	301 224 9316	MT-GLAZE	1K JA 1/16W
R2382	301 264 1813	MT-GLAZE	1K FA 1/10W	R3604	301 225 0619	MT-GLAZE	5.6K JA 1/16W
R2383	301 255 9019	MT-GLAZE	82 JA 1/10W	R361	301 113 6914	MT-GLAZE	13K JA 1/16W
R2384	301 264 1813	MT-GLAZE	1K FA 1/10W	R3621	301 224 9019	MT-GLAZE	10K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R3622	301 224 9019	MT-GLAZE	10K JA 1/16W	R5001	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R3623	301 224 9019	MT-GLAZE	10K JA 1/16W	R5002	301 225 8110	MT-GLAZE	10 JA 1/16W
R3626	301 224 9019	MT-GLAZE	10K JA 1/16W	R5003	301 225 8110	MT-GLAZE	10 JA 1/16W
R3627	301 224 9019	MT-GLAZE	10K JA 1/16W	R5004	301 224 8913	MT-GLAZE	100K JA 1/16W
R3628	301 224 9019	MT-GLAZE	10K JA 1/16W	R5005	301 224 8913	MT-GLAZE	100K JA 1/16W
R363	301 224 9316	MT-GLAZE	1K JA 1/16W	R5006	301 224 8913	MT-GLAZE	100K JA 1/16W
R364	301 224 9316	MT-GLAZE	1K JA 1/16W	R5007	301 224 8913	MT-GLAZE	100K JA 1/16W
R365	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R501	301 224 8814	MT-GLAZE	100 JA 1/16W
R366	301 224 9316	MT-GLAZE	1K JA 1/16W	R502	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R372	301 226 2414	MT-GLAZE	560 JA 1/16W	R5021	301 224 8913	MT-GLAZE	100K JA 1/16W
R373	301 226 2414	MT-GLAZE	560 JA 1/16W	R5022	301 224 8913	MT-GLAZE	100K JA 1/16W
R374	301 224 9316	MT-GLAZE	1K JA 1/16W	R503	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R375	301 224 9316	MT-GLAZE	1K JA 1/16W	R5031	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R377	301 225 1814	MT-GLAZE	47 JA 1/16W	R5032	301 224 8814	MT-GLAZE	100 JA 1/16W
R378	301 224 9019	MT-GLAZE	10K JA 1/16W	R5033	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R379	301 225 1814	MT-GLAZE	47 JA 1/16W	R5034	301 224 9316	MT-GLAZE	1K JA 1/16W
R380	301 224 9019	MT-GLAZE	10K JA 1/16W	R5035	301 224 8814	MT-GLAZE	100 JA 1/16W
R3801	301 225 8110	MT-GLAZE	10 JA 1/16W	R5036	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R3802	301 225 8110	MT-GLAZE	10 JA 1/16W	R5037	301 224 9316	MT-GLAZE	1K JA 1/16W
R3803	301 225 8110	MT-GLAZE	10 JA 1/16W	R5039	301 229 7218	MT-GLAZE	18K JA 1/16W
R3804	301 225 8516	MT-GLAZE	1.8K JA 1/16W	R504	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3806	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R5040	301 224 9019	MT-GLAZE	10K JA 1/16W
R382	301 263 7420	MT-GLAZE	75 JA 1/16W	R5041	301 224 9316	MT-GLAZE	1K JA 1/16W
R3856	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5042	301 224 9316	MT-GLAZE	1K JA 1/16W
R3857	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5043	301 224 9019	MT-GLAZE	10K JA 1/16W
R3858	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5046	301 224 9019	MT-GLAZE	10K JA 1/16W
R3861	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5047	301 224 9613	MT-GLAZE	2.7K JA 1/16W
R3863	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5048	301 224 9316	MT-GLAZE	1K JA 1/16W
R3865	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R505	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3866	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5051	301 224 9019	MT-GLAZE	10K JA 1/16W
R3867	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5052	301 224 9910	MT-GLAZE	22K JA 1/16W
R3868	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5053	301 224 9910	MT-GLAZE	22K JA 1/16W
R389	301 225 0817	MT-GLAZE	68K JA 1/16W	R5061	301 224 9316	MT-GLAZE	1K JA 1/16W
R396	301 224 9019	MT-GLAZE	10K JA 1/16W	R5062	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R397	301 224 8814	MT-GLAZE	100 JA 1/16W	R5063	301 224 9316	MT-GLAZE	1K JA 1/16W
R4001	301 265 4912	MT-GLAZE	75 FA 1/10W	R5064	301 224 9316	MT-GLAZE	1K JA 1/16W
R4002	301 265 4912	MT-GLAZE	75 FA 1/10W	R5066	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R4003	301 265 4912	MT-GLAZE	75 FA 1/10W	R5067	301 224 9316	MT-GLAZE	1K JA 1/16W
R4004	301 265 4912	MT-GLAZE	75 FA 1/10W	R5069	301 225 8011	MT-GLAZE	330 JA 1/16W
R4006	301 265 4912	MT-GLAZE	75 FA 1/10W	R508	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R401	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5081	301 224 9316	MT-GLAZE	1K JA 1/16W
R402	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5082	301 224 9316	MT-GLAZE	1K JA 1/16W
R403	301 225 0312	MT-GLAZE	33 JA 1/16W	R509	301 224 8814	MT-GLAZE	100 JA 1/16W
R404	301 224 9019	MT-GLAZE	10K JA 1/16W	R5090	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R406	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5092	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R407	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R511	301 224 8814	MT-GLAZE	100 JA 1/16W
R408	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R512	301 224 8814	MT-GLAZE	100 JA 1/16W
R412	301 225 1814	MT-GLAZE	47 JA 1/16W	R513	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R414	301 225 1814	MT-GLAZE	47 JA 1/16W	R514	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R416	301 225 1814	MT-GLAZE	47 JA 1/16W	R516	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R418	301 225 1814	MT-GLAZE	47 JA 1/16W	R517	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R419	301 225 1814	MT-GLAZE	47 JA 1/16W	R518	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R422	301 225 1814	MT-GLAZE	47 JA 1/16W	R5200	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R423	301 225 1814	MT-GLAZE	47 JA 1/16W	R5208	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R424	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5209	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R425	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5214	301 224 9019	MT-GLAZE	10K JA 1/16W
R432	301 225 1814	MT-GLAZE	47 JA 1/16W	R5216	301 224 9019	MT-GLAZE	10K JA 1/16W
R433	301 225 1814	MT-GLAZE	47 JA 1/16W	R5217	301 224 9019	MT-GLAZE	10K JA 1/16W
R436	301 225 1814	MT-GLAZE	47 JA 1/16W	R5218	301 224 9019	MT-GLAZE	10K JA 1/16W
R437	301 225 1814	MT-GLAZE	47 JA 1/16W	R5228	301 225 8110	MT-GLAZE	10 JA 1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5229	301 225 8110	MT-GLAZE	10 JA 1/16W
R4834	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R531	301 224 8814	MT-GLAZE	100 JA 1/16W
R4861	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R532	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4862	301 227 2413	MT-GLAZE	15 JA 1/16W	R5321	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4863	301 227 2413	MT-GLAZE	15 JA 1/16W	R5322	301 225 1418	MT-GLAZE	47K JA 1/16W
R4865	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5323	301 225 8110	MT-GLAZE	10 JA 1/16W
R4867	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5324	301 225 0718	MT-GLAZE	56K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
R5325	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6801	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5326	301 225 1319	MT-GLAZE	470 JA	1/16W	R6803	301 224 9019	MT-GLAZE	10K JA	1/16W
R533	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R535	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6806	301 224 9217	MT-GLAZE	15K JA	1/16W
R536	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6807	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R537	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6808	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R539	301 224 8814	MT-GLAZE	100 JA	1/16W	R6809	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R540	301 294 3313	MT-GLAZE	15K FA	1/16W	R6811	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R541	301 224 8814	MT-GLAZE	100 JA	1/16W	R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R542	301 224 8814	MT-GLAZE	100 JA	1/16W	R6813	301 224 9019	MT-GLAZE	10K JA	1/16W
R543	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6818	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R544	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6822	301 224 9316	MT-GLAZE	1K JA	1/16W
R546	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6823	301 224 9019	MT-GLAZE	10K JA	1/16W
R547	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6841	301 229 3913	MT-GLAZE	180 JA	1/16W
R548	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6843	301 229 3913	MT-GLAZE	180 JA	1/16W
R549	301 299 2410	MT-GLAZE	5.6K FA	1/16W	R6845	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R5541	301 037 5017	MT-GLAZE	0.000 ZA	1/10W	R6846	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5542	301 224 9316	MT-GLAZE	1K JA	1/16W	R6847	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R560	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6848	301 225 8011	MT-GLAZE	330 JA	1/16W
R561	301 224 8814	MT-GLAZE	100 JA	1/16W	R6849	301 225 8011	MT-GLAZE	330 JA	1/16W
R5611	301 224 8814	MT-GLAZE	100 JA	1/16W	R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R562	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6853	301 229 3913	MT-GLAZE	180 JA	1/16W
R5620	301 190 1710	MT-GLAZE	0.000 ZA	1W	R6854	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5621	301 190 1710	MT-GLAZE	0.000 ZA	1W	R6857	301 229 3913	MT-GLAZE	180 JA	1/16W
R5625	301 198 7912	MT-GLAZE	47 JA	1W	R6858	301 229 3913	MT-GLAZE	180 JA	1/16W
R5626	301 198 7912	MT-GLAZE	47 JA	1W	R6859	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5627	301 198 7912	MT-GLAZE	47 JA	1W	R6867	301 105 7912	MT-GLAZE	0.000 ZA	1/16W
R563	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6868	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R564	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6869	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R566	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R6881	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5668	301 224 8814	MT-GLAZE	100 JA	1/16W	R6882	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R569	301 224 8814	MT-GLAZE	100 JA	1/16W	R6883	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5707	301 035 4111	MT-GLAZE	0.000 ZA	1/8W	R699	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5708	301 224 9019	MT-GLAZE	10K JA	1/16W	R7801	301 224 9019	MT-GLAZE	10K JA	1/16W
R5709	301 230 8013	MT-GLAZE	1K JA	1/3W	R7802	301 224 9019	MT-GLAZE	10K JA	1/16W
R571	301 224 8814	MT-GLAZE	100 JA	1/16W	R7803	301 276 3010	MT-GLAZE	75K JA	1/16W
R5710	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R7805	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5711	301 301 3718	MT-GLAZE	2K FA	1/16W	R7816	301 225 8110	MT-GLAZE	10 JA	1/16W
R572	301 224 8814	MT-GLAZE	100 JA	1/16W	R7818	301 294 3016	MT-GLAZE	10K FA	1/16W
R573	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R7819	301 224 8913	MT-GLAZE	100K JA	1/16W
R574	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R7821	301 294 3511	MT-GLAZE	27K FA	1/16W
R5752	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R7823	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5753	301 224 9316	MT-GLAZE	1K JA	1/16W	R7824	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R5754	301 224 9019	MT-GLAZE	10K JA	1/16W	R7825	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5755	301 224 9019	MT-GLAZE	10K JA	1/16W	R7827	301 224 9019	MT-GLAZE	10K JA	1/16W
R576	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R7828	301 224 9019	MT-GLAZE	10K JA	1/16W
R577	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R7829	301 224 9316	MT-GLAZE	1K JA	1/16W
R578	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R7830	301 224 9019	MT-GLAZE	10K JA	1/16W
R5821	301 225 2118	MT-GLAZE	12K JA	1/16W	R7831	301 224 9316	MT-GLAZE	1K JA	1/16W
R5822	301 224 8913	MT-GLAZE	100K JA	1/16W	R7832	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5823	301 294 3016	MT-GLAZE	10K FA	1/16W	R7833	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5824	301 294 3511	MT-GLAZE	27K FA	1/16W	R7834	301 286 4717	MT-GLAZE	30K JA	1/16W
R5825	301 236 7119	MT-GLAZE	620 JA	1/16W	R7835	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5841	301 294 3115	MT-GLAZE	1K FA	1/16W	R7836	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R5842	301 150 6014	MT-GLAZE	0.000 ZA	1/10W	R7841	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R5861	301 234 9917	MT-GLAZE	6.8K JA	1/16W	R7842	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R5863	301 294 3016	MT-GLAZE	10K FA	1/16W	R7843	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5864	301 294 3016	MT-GLAZE	10K FA	1/16W	R7844	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R5865	301 301 8218	MT-GLAZE	680 FA	1/16W	R7845	301 224 9316	MT-GLAZE	1K JA	1/16W
R5867	301 224 8913	MT-GLAZE	100K JA	1/16W	R7846	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R593	301 037 5017	MT-GLAZE	0.000 ZA	1/10W	R7847	301 286 4717	MT-GLAZE	30K JA	1/16W
R594	301 037 5017	MT-GLAZE	0.000 ZA	1/10W	R7848	301 224 9019	MT-GLAZE	10K JA	1/16W
R595	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R7863	301 224 9316	MT-GLAZE	1K JA	1/16W
R596	301 294 3016	MT-GLAZE	10K FA	1/16W	R7866	301 225 8110	MT-GLAZE	10 JA	1/16W
R597	301 294 4419	MT-GLAZE	1.8K FA	1/16W	R7869	301 224 8913	MT-GLAZE	100K JA	1/16W
R598	301 301 0410	MT-GLAZE	240 FA	1/16W	R7871	301 294 3511	MT-GLAZE	27K FA	1/16W
R599	301 224 9316	MT-GLAZE	1K JA	1/16W	R7874	301 294 2811	MT-GLAZE	2.2K FA	1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R7878	301 224 9019	MT-GLAZE	10K JA 1/16W	R9889	301 225 8110	MT-GLAZE	10 JA 1/16W
R7879	301 224 9316	MT-GLAZE	1K JA 1/16W	R9890	301 225 8110	MT-GLAZE	10 JA 1/16W
R7881	301 224 9316	MT-GLAZE	1K JA 1/16W	R9891	301 225 8110	MT-GLAZE	10 JA 1/16W
R7882	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R9897	301 224 9712	MT-GLAZE	22 JA 1/16W
R7883	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R9898	301 224 9712	MT-GLAZE	22 JA 1/16W
R7884	301 286 4717	MT-GLAZE	30K JA 1/16W	R9899	301 224 9712	MT-GLAZE	22 JA 1/16W
R801	301 224 9019	MT-GLAZE	10K JA 1/16W	R9901	301 224 9019	MT-GLAZE	10K JA 1/16W
R8039	301 341 0616	MT-GLAZE	49.9 FA 1/16W	R9902	301 224 9019	MT-GLAZE	10K JA 1/16W
R804	301 224 9019	MT-GLAZE	10K JA 1/16W	R9903	301 224 9019	MT-GLAZE	10K JA 1/16W
R8049	301 341 0616	MT-GLAZE	49.9 FA 1/16W	R9904	301 224 9019	MT-GLAZE	10K JA 1/16W
R8059	301 341 0616	MT-GLAZE	49.9 FA 1/16W	R9905	301 224 9019	MT-GLAZE	10K JA 1/16W
R806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R9906	301 225 0817	MT-GLAZE	68K JA 1/16W
R8069	301 341 0616	MT-GLAZE	49.9 FA 1/16W	R9907	301 224 8814	MT-GLAZE	100 JA 1/16W
R807	301 224 9019	MT-GLAZE	10K JA 1/16W	R9908	301 224 8814	MT-GLAZE	100 JA 1/16W
R808	301 224 9019	MT-GLAZE	10K JA 1/16W	R9909	301 224 8814	MT-GLAZE	100 JA 1/16W
R809	301 225 8516	MT-GLAZE	1.8K JA 1/16W	R9910	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R812	301 224 9316	MT-GLAZE	1K JA 1/16W	R9911	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R813	301 224 9316	MT-GLAZE	1K JA 1/16W	R9912	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R846	301 224 9316	MT-GLAZE	1K JA 1/16W	R9914	301 224 9019	MT-GLAZE	10K JA 1/16W
R848	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R9915	301 224 9019	MT-GLAZE	10K JA 1/16W
R851	301 224 9316	MT-GLAZE	1K JA 1/16W	R9916	301 224 9019	MT-GLAZE	10K JA 1/16W
R852	301 225 1210	MT-GLAZE	4.7K JA 1/16W	RB2341	945 034 5051	R-NETWORK 22X4 1/32W	
R8801	301 224 9316	MT-GLAZE	1K JA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W	
R8802	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB2342	945 034 5051	R-NETWORK 22X4 1/32W	
R8804	301 225 1210	MT-GLAZE	4.7K JA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W	
R8805	301 224 9316	MT-GLAZE	1K JA 1/16W	RB2343	945 034 5051	R-NETWORK 22X4 1/32W	
R8806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W	
R8807	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB2344	945 034 5051	R-NETWORK 22X4 1/32W	
R8808	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W	
R8809	301 224 8814	MT-GLAZE	100 JA 1/16W	RB2345	945 034 5051	R-NETWORK 22X4 1/32W	
R8810	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W	
R8811	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB2346	945 034 5051	R-NETWORK 22X4 1/32W	
R8812	301 225 8110	MT-GLAZE	10 JA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W	
R8813	301 225 8110	MT-GLAZE	10 JA 1/16W	RB2351	945 029 5790	R-NETWORK 1KX4 1/32W	
R8814	301 224 9415	MT-GLAZE	1M JA 1/16W		945 028 0703	R-NETWORK 1KX4 1/16W	
R8815	301 225 1210	MT-GLAZE	4.7K JA 1/16W	RB2352	945 029 5790	R-NETWORK 1KX4 1/32W	
R8816	301 264 6511	MT-GLAZE	2.2K FA 1/10W		945 028 0703	R-NETWORK 1KX4 1/16W	
R8821	301 225 8110	MT-GLAZE	10 JA 1/16W	RB2353	945 029 5790	R-NETWORK 1KX4 1/32W	
R8822	301 225 8110	MT-GLAZE	10 JA 1/16W		945 028 0703	R-NETWORK 1KX4 1/16W	
R8831	301 224 9019	MT-GLAZE	10K JA 1/16W	RB2354	945 029 5790	R-NETWORK 1KX4 1/32W	
R8833	301 225 7915	MT-GLAZE	220 JA 1/16W		945 028 0703	R-NETWORK 1KX4 1/16W	
R8834	301 224 9712	MT-GLAZE	22 JA 1/16W	RB2355	945 029 5790	R-NETWORK 1KX4 1/32W	
R8835	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 028 0703	R-NETWORK 1KX4 1/16W	
R8836	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB2356	945 029 5790	R-NETWORK 1KX4 1/32W	
R8837	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 028 0703	R-NETWORK 1KX4 1/16W	
R8838	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB311	945 037 0831	R-NETWORK 47X4 1/16W	
R8839	301 225 7915	MT-GLAZE	220 JA 1/16W	RB312	945 037 0831	R-NETWORK 47X4 1/16W	
R8840	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB313	945 037 0831	R-NETWORK 47X4 1/16W	
R8841	301 224 9019	MT-GLAZE	10K JA 1/16W	RB314	945 037 0831	R-NETWORK 47X4 1/16W	
R8843	301 224 9019	MT-GLAZE	10K JA 1/16W	RB316	945 037 0831	R-NETWORK 47X4 1/16W	
R8844	301 224 9019	MT-GLAZE	10K JA 1/16W	RB318	945 037 0831	R-NETWORK 47X4 1/16W	
R8845	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	RB319	945 037 0831	R-NETWORK 47X4 1/16W	
R8846	301 224 8913	MT-GLAZE	100K JA 1/16W	RB411	945 037 0831	R-NETWORK 47X4 1/16W	
R8850	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	RB412	945 037 0831	R-NETWORK 47X4 1/16W	
R898	301 224 8814	MT-GLAZE	100 JA 1/16W	RB413	945 037 0831	R-NETWORK 47X4 1/16W	
R9873	301 255 7312	MT-GLAZE	510K JA 1/10W	RB414	945 037 0831	R-NETWORK 47X4 1/16W	
R9874	301 224 8913	MT-GLAZE	100K JA 1/16W	RB416	945 037 0831	R-NETWORK 47X4 1/16W	
R9875	301 224 8913	MT-GLAZE	100K JA 1/16W	RB417	945 037 0831	R-NETWORK 47X4 1/16W	
R9876	301 225 8110	MT-GLAZE	10 JA 1/16W	RB418	945 037 0831	R-NETWORK 47X4 1/16W	
R9878	301 225 3818	MT-GLAZE	1.5K JA 1/16W	RB419	945 037 0831	R-NETWORK 47X4 1/16W	
R9879	301 224 9019	MT-GLAZE	10K JA 1/16W	RB421	945 037 0831	R-NETWORK 47X4 1/16W	
R9881	301 224 9019	MT-GLAZE	10K JA 1/16W	RB422	945 037 0831	R-NETWORK 47X4 1/16W	
R9882	301 225 8110	MT-GLAZE	10 JA 1/16W	RB423	945 037 0831	R-NETWORK 47X4 1/16W	
R9883	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB424	945 037 0831	R-NETWORK 47X4 1/16W	
R9884	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB426	945 037 0831	R-NETWORK 47X4 1/16W	
R9885	301 224 9019	MT-GLAZE	10K JA 1/16W	RB427	945 037 0831	R-NETWORK 47X4 1/16W	
R9888	301 224 9316	MT-GLAZE	1K JA 1/16W	RB428	945 037 0831	R-NETWORK 47X4 1/16W	

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RB429	945 037 0831	R-NETWORK 47X4 1/16W	L2376	652 002 8500	INDUCTOR 330OHM, P
RB431	945 037 0831	R-NETWORK 47X4 1/16W	L2381	652 002 8524	INDUCTOR 220OHM, P
RB433	945 037 0831	R-NETWORK 47X4 1/16W	L2382	652 002 8524	INDUCTOR 220OHM, P
RB434	945 037 0831	R-NETWORK 47X4 1/16W	L2383	652 002 8524	INDUCTOR 220OHM, P
RB437	945 037 0831	R-NETWORK 47X4 1/16W	L2385	652 002 8524	INDUCTOR 220OHM, P
RB501	945 036 3529	R-NETWORK 0X4 1/32W	L2386	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L2891	652 002 8524	INDUCTOR 220OHM, P
RB502	945 036 3529	R-NETWORK 0X4 1/32W	L2892	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L301	652 002 8524	INDUCTOR 220OHM, P
RB503	945 036 3529	R-NETWORK 0X4 1/32W	L302	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L303	652 002 8524	INDUCTOR 220OHM, P
RB504	945 036 3529	R-NETWORK 0X4 1/32W	L304	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L305	652 002 8524	INDUCTOR 220OHM, P
RB506	945 036 3529	R-NETWORK 0X4 1/32W	L306	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L307	652 002 8524	INDUCTOR 220OHM, P
RB507	945 036 3529	R-NETWORK 0X4 1/32W	L308	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L309	652 002 8524	INDUCTOR 220OHM, P
RB508	945 036 3529	R-NETWORK 0X4 1/32W	L311	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L312	652 002 8524	INDUCTOR 220OHM, P
RB531	945 036 3529	R-NETWORK 0X4 1/32W	L313	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L314	652 002 8524	INDUCTOR 220OHM, P
RB532	945 036 3529	R-NETWORK 0X4 1/32W	L3501	652 002 8500	INDUCTOR 330OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L3531	652 002 8500	INDUCTOR 330OHM, P
RB533	945 036 3529	R-NETWORK 0X4 1/32W	L3534	945 041 2210	INDUCTOR,0.12U K
	945 037 0817	R-NETWORK 0X4 1/16W	L3561	652 002 8500	INDUCTOR 330OHM, P
RB534	945 036 3529	R-NETWORK 0X4 1/32W	L3620	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L3621	652 002 8524	INDUCTOR 220OHM, P
RB536	945 036 3529	R-NETWORK 0X4 1/32W	L3622	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L3624	652 002 8524	INDUCTOR 220OHM, P
RB537	945 036 3529	R-NETWORK 0X4 1/32W	L3626	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L3627	652 002 8524	INDUCTOR 220OHM, P
RB538	945 036 3529	R-NETWORK 0X4 1/32W	L3630	652 002 8524	INDUCTOR 220OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L3631	652 002 8524	INDUCTOR 220OHM, P
RB561	945 036 3529	R-NETWORK 0X4 1/32W	L3632	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L3634	945 086 5368	IMPEDANCE,220 OHM P
RB562	945 036 3529	R-NETWORK 0X4 1/32W	L3636	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L3637	945 086 5368	IMPEDANCE,220 OHM P
RB563	945 036 3529	R-NETWORK 0X4 1/32W	L4001	945 086 7577	FILTER,EMI 400MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L4002	945 086 7577	FILTER,EMI 400MHZ
RB564	945 036 3529	R-NETWORK 0X4 1/32W	L4003	945 086 7577	FILTER,EMI 400MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L4004	945 086 7577	FILTER,EMI 400MHZ
RB565	945 036 3529	R-NETWORK 0X4 1/32W	L4006	945 086 7577	FILTER,EMI 400MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L402	652 002 8500	INDUCTOR 330OHM, P
RB566	945 036 3529	R-NETWORK 0X4 1/32W	L4809	652 002 8685	INDUCTOR 1000OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L4810	652 002 8685	INDUCTOR 1000OHM, P
RB567	945 036 3529	R-NETWORK 0X4 1/32W	L4811	652 002 8685	INDUCTOR 1000OHM, P
	945 037 0817	R-NETWORK 0X4 1/16W	L4812	652 002 8524	INDUCTOR 220OHM, P
RB568	945 028 0697	R-NETWORK 100X4 1/16W	L4814	652 002 8685	INDUCTOR 1000OHM, P
COIL			L501	652 002 8500	INDUCTOR 330OHM, P
L1021	945 086 7577	FILTER,EMI 400MHZ	L502	652 002 8500	INDUCTOR 330OHM, P
L1022	945 086 7577	FILTER,EMI 400MHZ	L5031	652 002 8524	INDUCTOR 220OHM, P
L1023	945 086 7577	FILTER,EMI 400MHZ	L5032	652 002 8524	INDUCTOR 220OHM, P
L1024	945 086 7560	FILTER,EMI 200MHZ	L5201	652 002 8500	INDUCTOR 330OHM, P
L1025	945 086 7577	FILTER,EMI 400MHZ	L5202	652 002 8500	INDUCTOR 330OHM, P
L1026	945 086 7560	FILTER,EMI 200MHZ	L531	652 002 8500	INDUCTOR 330OHM, P
L1027	945 086 7577	FILTER,EMI 400MHZ	L532	652 002 8500	INDUCTOR 330OHM, P
L1028	945 086 7577	FILTER,EMI 400MHZ	L5601	652 002 8524	INDUCTOR 220OHM, P
L1029	945 086 7560	FILTER,EMI 200MHZ	L5602	652 002 8500	INDUCTOR 330OHM, P
L1031	945 086 7560	FILTER,EMI 200MHZ	L5603	652 002 8500	INDUCTOR 330OHM, P
L1051	945 032 8344	INDUCTOR,39U J	L561	652 002 8500	INDUCTOR 330OHM, P
L1421	652 002 8500	INDUCTOR 330OHM, P	L562	652 002 8500	INDUCTOR 330OHM, P
L2301	652 002 8524	INDUCTOR 220OHM, P	L5701	652 002 8500	INDUCTOR 330OHM, P
L2302	652 002 8524	INDUCTOR 220OHM, P	L5702	652 002 8500	INDUCTOR 330OHM, P
L2303	652 002 8524	INDUCTOR 220OHM, P	L5821	945 062 2930	INDUCTOR,10U M
L2371	945 075 1388	INDUCTOR,10U M	L5822	652 002 8500	INDUCTOR 330OHM, P
			L5823	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
			L5824	652 002 8500	INDUCTOR 330OHM, P

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
L5825	652 002 8500	INDUCTOR 330OHM, P		307 210 1923	DIODE 1SS400 TE-61
L5848	652 002 8500	INDUCTOR 330OHM, P	D3621	307 235 0816	DIODE 1SS387 TPL3
L5861	945 062 2930	INDUCTOR,10U M		307 210 1923	DIODE 1SS400 TE-61
L5862	652 002 8500	INDUCTOR 330OHM, P	D3622	307 235 0816	DIODE 1SS387 TPL3
L5867	301 037 5017	MT-GLAZE 0.000 ZA 1/10W		307 210 1923	DIODE 1SS400 TE-61
L5868	652 002 8500	INDUCTOR 330OHM, P	D3623	307 235 0816	DIODE 1SS387 TPL3
L7811	945 062 2855	INDUCTOR,33U M		307 210 1923	DIODE 1SS400 TE-61
L7861	945 062 2855	INDUCTOR,33U M	D3626	307 235 0816	DIODE 1SS387 TPL3
L8166	652 002 8524	INDUCTOR 220OHM, P		307 210 1923	DIODE 1SS400 TE-61
L8801	652 002 8524	INDUCTOR 220OHM, P	D3627	307 235 0816	DIODE 1SS387 TPL3
L8802	652 002 8524	INDUCTOR 220OHM, P		307 210 1923	DIODE 1SS400 TE-61
L8803	652 002 8524	INDUCTOR 220OHM, P	D3628	307 235 0816	DIODE 1SS387 TPL3
L8804	945 068 8318	FILTER,EMI 100MHZ		307 210 1923	DIODE 1SS400 TE-61
			D3644	307 235 0816	DIODE 1SS387 TPL3
				307 210 1923	DIODE 1SS400 TE-61
DIODE			D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1022	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		307 209 1214	ZD UDZS-TE-176.2B
D1023	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		408 063 7507	ZENER DIODE MM3Z6V2B
D1024	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D1026	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		307 209 1214	ZD UDZS-TE-176.2B
D1041	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		408 063 7507	ZENER DIODE MM3Z6V2B
	307 209 1214	ZD UDZS-TE-176.2B	D5061	307 235 0816	DIODE 1SS387 TPL3
	408 063 7507	ZENER DIODE MM3Z6V2B		307 210 1923	DIODE 1SS400 TE-61
D1042	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D5062	307 235 0816	DIODE 1SS387 TPL3
	307 209 1214	ZD UDZS-TE-176.2B		307 210 1923	DIODE 1SS400 TE-61
	408 063 7507	ZENER DIODE MM3Z6V2B	D5302	307 210 5416	DIODE RB551V-30-TE-17
D1043	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D5622	307 235 0816	DIODE 1SS387 TPL3
	307 209 1214	ZD UDZS-TE-176.2B		307 210 1923	DIODE 1SS400 TE-61
	408 063 7507	ZENER DIODE MM3Z6V2B	D5623	307 235 0816	DIODE 1SS387 TPL3
D1044	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		307 210 1923	DIODE 1SS400 TE-61
	307 209 1214	ZD UDZS-TE-176.2B	D5624	307 235 0816	DIODE 1SS387 TPL3
	408 063 7507	ZENER DIODE MM3Z6V2B		307 210 1923	DIODE 1SS400 TE-61
D1091	307 205 5216	DIODE RB521S-30-TE61	D591	307 235 0816	DIODE 1SS387 TPL3
D1092	307 205 5216	DIODE RB521S-30-TE61		307 210 1923	DIODE 1SS400 TE-61
D1093	307 205 5216	DIODE RB521S-30-TE61	D592	307 235 0816	DIODE 1SS387 TPL3
D1094	307 205 5216	DIODE RB521S-30-TE61		307 210 1923	DIODE 1SS400 TE-61
D2071	307 235 0816	DIODE 1SS387 TPL3	D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 210 1923	DIODE 1SS400 TE-61		307 209 1214	ZD UDZS-TE-176.2B
D2371	307 235 0816	DIODE 1SS387 TPL3		408 063 7507	ZENER DIODE MM3Z6V2B
	307 210 1923	DIODE 1SS400 TE-61	D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D2372	307 235 0816	DIODE 1SS387 TPL3		307 209 1214	ZD UDZS-TE-176.2B
	307 210 1923	DIODE 1SS400 TE-61		408 063 7507	ZENER DIODE MM3Z6V2B
D2373	307 235 0816	DIODE 1SS387 TPL3	D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 210 1923	DIODE 1SS400 TE-61		307 209 1214	ZD UDZS-TE-176.2B
D2381	307 235 0816	DIODE 1SS387 TPL3		408 063 7507	ZENER DIODE MM3Z6V2B
	307 210 1923	DIODE 1SS400 TE-61	D6831	307 209 7513	LED SML-210YT T86 L
D2391	307 235 0816	DIODE 1SS387 TPL3	D6832	307 203 7816	LED SML-210LT T86 M
	307 210 1923	DIODE 1SS400 TE-61	D6833	307 222 4810	LED SML-521MUW T86
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D6840	307 235 0816	DIODE 1SS387 TPL3
	307 209 1214	ZD UDZS-TE-176.2B		307 210 1923	DIODE 1SS400 TE-61
	408 063 7507	ZENER DIODE MM3Z6V2B	D6841	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		307 209 1214	ZD UDZS-TE-176.2B
	307 209 1214	ZD UDZS-TE-176.2B		408 063 7507	ZENER DIODE MM3Z6V2B
	408 063 7507	ZENER DIODE MM3Z6V2B	D6842	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D3602	307 235 0816	DIODE 1SS387 TPL3		307 209 1214	ZD UDZS-TE-176.2B
	307 210 1923	DIODE 1SS400 TE-61		408 063 7507	ZENER DIODE MM3Z6V2B
D3606	307 210 1923	DIODE 1SS400 TE-61	D6843	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
D3611	307 235 0816	DIODE 1SS387 TPL3		307 209 1214	ZD UDZS-TE-176.2B
	307 210 1923	DIODE 1SS400 TE-61		408 063 7507	ZENER DIODE MM3Z6V2B
D3613	307 235 0816	DIODE 1SS387 TPL3	D6844	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 210 1923	DIODE 1SS400 TE-61		307 209 1214	ZD UDZS-TE-176.2B
D3614	307 235 0816	DIODE 1SS387 TPL3		408 063 7507	ZENER DIODE MM3Z6V2B
	307 210 1923	DIODE 1SS400 TE-61	D6850	307 235 0816	DIODE 1SS387 TPL3
D3615	307 235 0816	DIODE 1SS387 TPL3		307 210 1923	DIODE 1SS400 TE-61
	307 210 1923	DIODE 1SS400 TE-61	D6851	307 235 0816	DIODE 1SS387 TPL3
D3617	307 235 0816	DIODE 1SS387 TPL3		307 210 1923	DIODE 1SS400 TE-61
	307 210 1923	DIODE 1SS400 TE-61	D6852	307 235 0816	DIODE 1SS387 TPL3
D3618	307 235 0816	DIODE 1SS387 TPL3			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	307 210 1923	DIODE 1SS400 TE-61	X2331	945 088 7179	OSC,CRYSTAL 27.0MHZ
D6853	307 235 0816	DIODE 1SS387 TPL3	X8802	945 083 7556	OSC,CRYSTAL 25.0MHZ
	307 210 1923	DIODE 1SS400 TE-61	X9885	945 060 9900	OSC,CERAMIC 8.00MHZ
D6854	307 235 0816	DIODE 1SS387 TPL3	655 003 1211 ASSY,PWB,R/C		
	307 210 1923	DIODE 1SS400 TE-61	CAPACITOR		
D6855	307 235 0816	DIODE 1SS387 TPL3	C2901	403 455 1012	CERAMIC 1U K 10V
	307 210 1923	DIODE 1SS400 TE-61		303 433 1112	CERAMIC 1U K 10V
D7812	307 254 2716	DIODE CMS16	C2902	303 453 8719	CERAMIC 470P K 50V
D7862	307 254 2716	DIODE CMS16		303 453 9211	CERAMIC 470P K 50V
D8901	307 235 0816	DIODE 1SS387 TPL3		303 282 5118	CERAMIC 470P K 50V
	307 210 1923	DIODE 1SS400 TE-61	C2903	303 358 3215	CERAMIC 10U K 6.3V
D8902	307 235 0816	DIODE 1SS387 TPL3		303 368 7319	CERAMIC 10U K 6.3V
	307 210 1923	DIODE 1SS400 TE-61	RESISTOR		
MISCELLANEOUS			R2901	301 225 1814	MT-GLAZE 47 JA 1/16W
FB3620	652 002 8531	INDUCTOR 330OHM, P	R2902	301 224 8814	MT-GLAZE 100 JA 1/16W
FB3621	652 002 8531	INDUCTOR 330OHM, P	DIODE		
FB3622	652 002 8531	INDUCTOR 330OHM, P	D2901	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
FB3624	652 002 8531	INDUCTOR 330OHM, P	MISCELLANEOUS		
FB3626	652 002 8531	INDUCTOR 330OHM, P	A2901	652 002 3352	UNIT,REMOCON,RECEIVER
FB3627	652 002 8531	INDUCTOR 330OHM, P	655 003 2485 ASSY,PWB,TEMP KB8AC		
FB602	652 002 8500	INDUCTOR 330OHM, P	CAPACITOR		
FB603	652 002 8500	INDUCTOR 330OHM, P	C4833	303 453 8917	CERAMIC 0.1U K 16V
FB604	652 002 8500	INDUCTOR 330OHM, P		303 453 8610	CERAMIC 0.1U K 16V
FB605	652 002 8500	INDUCTOR 330OHM, P		303 409 3426	CERAMIC 0.1U K 16V
FB606	652 002 8500	INDUCTOR 330OHM, P	C4834	303 358 3215	CERAMIC 10U K 6.3V
FB607	652 002 8500	INDUCTOR 330OHM, P		303 370 0018	CERAMIC 10U K 6.3V
FB8801	652 002 8531	INDUCTOR 330OHM, P		303 368 7319	CERAMIC 10U K 6.3V
K10A	952 001 8571	SOCKET,D-SUB 15P	RESISTOR		
K10B	952 001 8601	SOCKET,D-SUB 15P	R4831	301 225 8110	MT-GLAZE 10 JA 1/16W
K10C	952 001 8601	SOCKET,D-SUB 15P	R4832	301 225 8110	MT-GLAZE 10 JA 1/16W
K20A	652 002 8135	PLUG,D-SUB 9P	ASSY,PWB,AV		
K9602	645 093 6760	TRANS,PULSE	CAPACITOR		
SC1021	945 076 3503	SURGE-ABSORBER	C2001	303 453 8917	CERAMIC 0.1U K 16V
SC1022	945 076 3503	SURGE-ABSORBER		303 453 8610	CERAMIC 0.1U K 16V
SC1023	945 076 3503	SURGE-ABSORBER		303 409 3426	CERAMIC 0.1U K 16V
SC1027	945 076 3503	SURGE-ABSORBER	C3051	303 454 0910	CERAMIC 100P J 50V
SC1028	945 076 3503	SURGE-ABSORBER	C3061	303 454 0910	CERAMIC 100P J 50V
SC1029	945 076 3503	SURGE-ABSORBER	RESISTOR		
SC4001	945 076 3503	SURGE-ABSORBER	R2001	301 260 4115	MT-GLAZE 75 JA 1/3W
SC4002	945 076 3503	SURGE-ABSORBER	R2002	301 224 8814	MT-GLAZE 100 JA 1/16W
SC4003	945 076 3503	SURGE-ABSORBER	R2008	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
SC4004	945 076 3503	SURGE-ABSORBER	R2010	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
SC4006	945 076 3503	SURGE-ABSORBER	R2012	301 260 4115	MT-GLAZE 75 JA 1/3W
SC5608	945 076 3503	SURGE-ABSORBER	R2022	301 260 4115	MT-GLAZE 75 JA 1/3W
SW6800	945 026 2792	SWITCH,PUSH 1P-1TX1	R2051	301 150 5819	MT-GLAZE 100K JA 1/10W
	952 001 8830	SWITCH,PUSH 1P-1TX1	R2052	301 150 5819	MT-GLAZE 100K JA 1/10W
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1	R3001	301 150 5819	MT-GLAZE 100K JA 1/10W
	952 001 8830	SWITCH,PUSH 1P-1TX1	R3011	301 150 5819	MT-GLAZE 100K JA 1/10W
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1	R3021	301 224 8913	MT-GLAZE 100K JA 1/16W
	952 001 8830	SWITCH,PUSH 1P-1TX1	R3031	301 150 5819	MT-GLAZE 100K JA 1/10W
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1	R3051	301 150 5819	MT-GLAZE 100K JA 1/10W
	952 001 8830	SWITCH,PUSH 1P-1TX1	R3061	301 255 6513	MT-GLAZE 100 JA 1/10W
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1	R3063	301 150 5819	MT-GLAZE 100K JA 1/10W
	952 001 8830	SWITCH,PUSH 1P-1TX1	R3064	301 255 6513	MT-GLAZE 100 JA 1/10W
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1			
	952 001 8830	SWITCH,PUSH 1P-1TX1			
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1			
	952 001 8830	SWITCH,PUSH 1P-1TX1			
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1			
	952 001 8830	SWITCH,PUSH 1P-1TX1			
SW6810	945 026 2792	SWITCH,PUSH 1P-1TX1			
	952 001 8830	SWITCH,PUSH 1P-1TX1			
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1			
	952 001 8830	SWITCH,PUSH 1P-1TX1			
X1331	945 088 7179	OSC,CRYSTAL 27.0MHZ			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
COIL					
L2011	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	Q643	305 173 9915	TR 2SC3928A1S
L2021	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	Q651	305 217 6600	TR 2SK3934
MISCELLANEOUS				305 134 5928	TR 2SA1037AK-T146-R
K20A	945 068 3740	JACK,RCA-3		305 147 2218	TR 2SA1037AK-S-T146
K20B	645 089 9041	SOCKET,DIN 4P		305 173 9618	TR 2SA1235A1E
	952 001 4740	SOCKET,DIN 4P		305 173 9717	TR 2SA1235A1F
K30A	945 006 4792	JACK,PHONE D3.6		405 220 3115	TR ISA1235AC1E
	952 001 0070	JACK,PHONE D3.6		405 220 3016	TR ISA1235AC1F
	952 001 0971	JACK,PHONE D3.5	Q661	305 014 4512	TR 2SC2412K T146 R
K30B	945 006 4792	JACK,PHONE D3.6		305 014 4611	TR 2SC2412K T146 S
	952 001 0070	JACK,PHONE D3.6		305 015 8727	TR 2SC2812-L6-TB
	952 001 0971	JACK,PHONE D3.5		305 015 8925	TR 2SC2812-L7-TB
K30C	945 006 4792	JACK,PHONE D3.6		305 163 1615	TR 2SC2812N-L6-TB0
	952 001 0070	JACK,PHONE D3.6		305 173 9816	TR 2SC3928A1R
	952 001 0971	JACK,PHONE D3.5		305 173 9915	TR 2SC3928A1S
SC2001	945 076 3503	SURGE-ABSORBER	INTEGRATED CIRCUIT		
SC2011	945 076 3503	SURGE-ABSORBER	IC621	409 690 7918	IC FA5550N
SC2021	945 076 3503	SURGE-ABSORBER	IC631	309 653 7405	IC MR4010-7101
SC2051	945 076 3503	SURGE-ABSORBER	IC671	409 692 2515	IC TA76L431FB
SC2052	945 076 3503	SURGE-ABSORBER	CAPACITOR		
SC3001	945 076 3503	SURGE-ABSORBER	C611	303 222 1326	CERAMIC 1000P K 1K
SC3011	945 076 3503	SURGE-ABSORBER		304 084 6300	CERAMIC 1000P K 1K
SC3021	945 076 3503	SURGE-ABSORBER	C612	303 222 1326	CERAMIC 1000P K 1K
SC3031	945 076 3503	SURGE-ABSORBER		304 084 6300	CERAMIC 1000P K 1K
SC3051	945 076 3503	SURGE-ABSORBER	C613	303 451 4119	MT-POLYEST 1U K 450V
SC3061	945 076 3503	SURGE-ABSORBER	C614	303 451 4119	MT-POLYEST 1U K 450V
655 003 1198 ASSY,PWB SW			C615	404 115 2704	ELECT 330U M 420V
△SW901	945 063 5176	SWITCH,PUSH 2P-2TX3		404 115 6306	ELECT 330U M 420V
655 003 1174 ASSY,PWB,POWER			C621	303 336 3510	CERAMIC 0.47U K 16V
TRANSISTOR			C622	304 091 4504	CERAMIC 0.047U K 50V
Q611	305 217 6600	TR 2SK3934	C623	304 090 1207	CERAMIC 0.01U K 50V
Q612	305 217 6600	TR 2SK3934	C625	304 090 1108	CERAMIC 1000P K 50V
Q621	305 014 4512	TR 2SC2412K T146 R	C626	303 396 9613	CERAMIC 1U K 25V
	305 014 4611	TR 2SC2412K T146 S		403 478 5912	CERAMIC 1U K 25V
	305 015 8727	TR 2SC2812-L6-TB	C627	304 091 3309	CERAMIC 2200P K 50V
	305 015 8925	TR 2SC2812-L7-TB	C629	303 265 3216	CERAMIC 1000P J 50V
	305 163 1615	TR 2SC2812N-L6-TB0	C631	303 157 4215	CERAMIC 220P J 50V
	305 173 9816	TR 2SC3928A1R	C632	303 245 4417	CERAMIC 470P K 2K
	305 173 9915	TR 2SC3928A1S	C633	303 265 3216	CERAMIC 1000P J 50V
Q622	305 014 4512	TR 2SC2412K T146 R	C634	304 091 3309	CERAMIC 2200P K 50V
	305 014 4611	TR 2SC2412K T146 S	C641	304 091 2609	CERAMIC 0.1U K 50V
	305 015 8727	TR 2SC2812-L6-TB	C644	303 417 9912	CERAMIC 4.7U K 25V
	305 015 8925	TR 2SC2812-L7-TB	C651	303 411 1823	ELECT 220U M 35V
	305 163 1615	TR 2SC2812N-L6-TB0	C653	303 370 1510	CERAMIC 0.1U K 50V
	305 173 9816	TR 2SC3928A1R	C661	303 445 4405	ELECT 1800U M 25V
	305 173 9915	TR 2SC3928A1S	C662	303 367 0410	CERAMIC 0.1U K 50V
Q641	305 014 4512	TR 2SC2412K T146 R		304 091 2609	CERAMIC 0.1U K 50V
	305 014 4611	TR 2SC2412K T146 S	C663	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8727	TR 2SC2812-L6-TB		304 091 2609	CERAMIC 0.1U K 50V
	305 015 8925	TR 2SC2812-L7-TB	C664	303 429 6718	ELECT 1500U M 10V
	305 163 1615	TR 2SC2812N-L6-TB0	C665	303 409 9913	ELECT 470U M 16V
	305 173 9816	TR 2SC3928A1R	C671	304 091 2609	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C672	303 410 7113	ELECT 100U M 25V
Q642	305 014 4512	TR 2SC2412K T146 R	C673	303 410 7113	ELECT 100U M 25V
	305 014 4611	TR 2SC2412K T146 S	C674	403 477 6514	MT-POLYEST 0.01U J 630V
	305 015 8727	TR 2SC2812-L6-TB	△C693	304 073 4508	CERAMIC 2200P K 250V
	305 015 8925	TR 2SC2812-L7-TB	RESISTOR		
	305 163 1615	TR 2SC2812N-L6-TB0	R611	401 353 0311	MT-GLAZE 430K JA 1/3W
	305 173 9816	TR 2SC3928A1R	R612	401 353 0212	MT-GLAZE 360K JA 1/3W
	305 173 9915	TR 2SC3928A1S	R613	301 256 6314	MT-GLAZE 47K JA 1/10W
	305 014 4512	TR 2SC2412K T146 R	R614	402 109 8206	RESISTER 0.15 JB 5W
	305 014 4611	TR 2SC2412K T146 S	R615	301 188 3313	MT-GLAZE 680K JA 1/4W
	305 015 8727	TR 2SC2812-L6-TB	R616	301 188 3313	MT-GLAZE 680K JA 1/4W
	305 015 8925	TR 2SC2812-L7-TB	R617	301 256 6314	MT-GLAZE 47K JA 1/10W
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			

Electrical Parts List

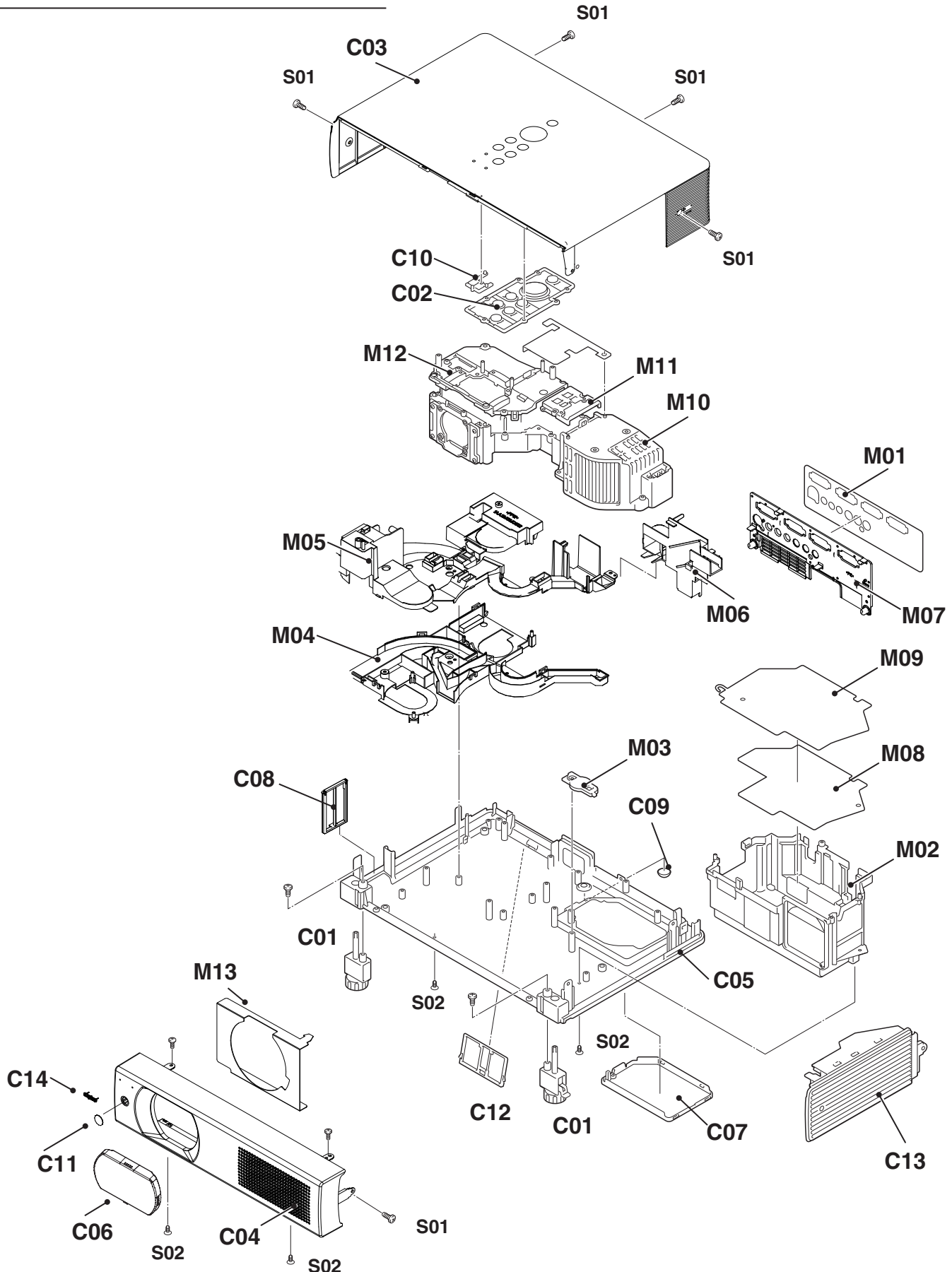
Key No.	Part No.	Description	Key No.	Part No.	Description
R618	401 361 2314	MT-GLAZE 750K JA 1/3W	D613	307 163 0414	DIODE 1SS352-(TPH3)
R619	301 150 6014	MT-GLAZE 0.000 ZA 1/10W		307 149 0810	DIODE 1SS355-TE-17
R620	301 256 5614	MT-GLAZE 47 JA 1/10W		408 062 7201	DIODE 1SS35
R621	301 326 1812	MT-GLAZE 8.2K DA 1/10W	D631	307 163 0414	DIODE 1SS352-(TPH3)
R622	301 309 8517	MT-GLAZE 330 DA 1/10W		307 149 0810	DIODE 1SS355-TE-17
R623	401 360 8010	MT-GLAZE 470 DA 1/10W		408 062 7201	DIODE 1SS35
R624	301 255 6513	MT-GLAZE 100 JA 1/10W	D632	307 247 8827	DIODE RF101L2S
R625	301 256 5614	MT-GLAZE 47 JA 1/10W	D633	307 146 8116	DIODE EG01C
R626	301 150 6014	MT-GLAZE 0.000 ZA 1/10W	D651	307 247 8827	DIODE RF101L2S
R627	301 150 5918	MT-GLAZE 10K JA 1/10W	D661	407 261 9504	DIODE YG862C10R
R628	301 150 5918	MT-GLAZE 10K JA 1/10W	D662	307 202 9801	DIODE FMB-26L
R629	301 255 7312	MT-GLAZE 510K JA 1/10W		307 253 7504	DIODE RB085T-60
R631	301 255 7718	MT-GLAZE 11K JA 1/10W	D663	307 247 8827	DIODE RF101L2S
R632	401 361 2314	MT-GLAZE 750K JA 1/3W		307 190 4119	DIODE SFPL-52V
R633	301 150 6014	MT-GLAZE 0.000 ZA 1/10W	D664	307 210 5416	DIODE RB551V-30-TE-17
R634	301 256 1715	MT-GLAZE 33K JA 1/10W	D665	307 219 0808	THYRISTOR TF861S
R635	402 122 1802	OXIDE-MT 0.39JA 1W	D666	307 146 8116	DIODE EG01C
	302 099 6308	OXIDE-MT 0.39JA 1W	DB611	307 143 6006	DIODE RBV-1506
R636	301 162 3018	MT-GLAZE 22K JA 1/10W		308 045 4909	DIODE RBV-1506 LF-B
R637	301 255 6117	MT-GLAZE 20K JA 1/10W	MISCELLANEOUS		
R638	301 256 6314	MT-GLAZE 47K JA 1/10W	△F631	324 006 1305	FUSE 250V 2.5A
R641	301 150 5918	MT-GLAZE 10K JA 1/10W	△PC661	307 223 7315	PC TLP421F(D4-GB-TP4)
R642	301 256 6611	MT-GLAZE 68K JA 1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)
R643	301 150 5918	MT-GLAZE 10K JA 1/10W		407 265 7813	PC TLP781F(D4-GB-TP7)
R644	301 150 5918	MT-GLAZE 10K JA 1/10W	△PC663	307 223 7315	PC TLP421F(D4-GB-TP4)
R646	301 256 7212	MT-GLAZE 18K JA 1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)
R648	301 256 7212	MT-GLAZE 18K JA 1/10W		407 265 7813	PC TLP781F(D4-GB-TP7)
R651	301 150 5918	MT-GLAZE 10K JA 1/10W	△PC671	307 223 7315	PC TLP421F(D4-GB-TP4)
R652	301 292 1915	MT-GLAZE 22 FA 1/2W		307 223 8312	PC TLP421F(D4-GR-TP4)
R662	301 152 3219	MT-GLAZE 330 JA 1/10W		407 265 7813	PC TLP781F(D4-GB-TP7)
R665	301 242 2313	MT-GLAZE 82K JA 1/2W	△PTH611	308 037 5600	THERMISTOR NTPDB8R0LDHBO
R671	301 256 7618	MT-GLAZE 3.9K JA 1/10W	△PTH641	408 062 4606	TH PRF18BD471QB1RB
R672	301 150 6212	MT-GLAZE 1K JA 1/10W	ZD631	307 206 5413	ZD UDZS-TE-178.2B
R673	301 264 2919	MT-GLAZE 12K FA 1/10W	655 003 1167 ASSY,PWB,LINE FILTER		
R674	301 264 7518	MT-GLAZE 2.7K FA 1/10W	CAPACITOR		
R675	301 162 3711	MT-GLAZE 4.7K JA 1/10W	△C601	404 113 2904	MT-POLYEST 0.33U K 275V
R676	301 264 2810	MT-GLAZE 1.2K FA 1/10W	△C602	404 113 2904	MT-POLYEST 0.33U K 275V
R683	301 265 0211	MT-GLAZE 390 FA 1/10W	RESISTOR		
R684	301 264 9314	MT-GLAZE 3.3K FA 1/10W	△R600	401 353 0212	MT-GLAZE 360K JA 1/3W
R685	402 109 8206	RESISTOR 0.15 JB 5W	△R601	401 353 0212	MT-GLAZE 360K JA 1/3W
R686	301 258 8217	MT-GLAZE 680 JA 1/3W	VARIABLE RESISTOR		
R687	302 080 8809	MT-GLAZE 680 KA 1W	△VA601	308 061 5607	VARISTOR ENE471D-14A-S6
R689	301 242 2313	MT-GLAZE 82K JA 1/2W		408 061 9701	VARISTOR S14K300E2S5M4,2
R690	301 242 2313	MT-GLAZE 82K JA 1/2W	COIL		
R691	301 242 2313	MT-GLAZE 82K JA 1/2W	△L601	945 050 2232	LINE FILTER
R692	301 037 5413	MT-GLAZE 1K JA 1/10W	MISCELLANEOUS		
R693	301 037 6717	MT-GLAZE 1.2K JA 1/10W	△F601	323 025 1204	FUSE 250V 8A
TRANSFORMER					
△T651	645 097 6483	TRANS,POWER,PULSE			
COIL					
L611	945 081 4878	LINE FILTER			
L612	645 089 2561	INDUCTOR,700U			
L613	910 244 3975	CORE			
L614	910 244 3975	CORE			
L631	910 078 5954	PIPE CORE			
L661	910 244 3975	CORE			
L662	910 244 3975	CORE			
L663	652 002 8500	INDUCTOR 330OHM, P			
DIODE					
D611	307 253 7405	DIODE FMXA-1106S			
D612	307 163 0414	DIODE 1SS352-(TPH3)			
	307 149 0810	DIODE 1SS355-TE-17			
	408 062 7201	DIODE 1SS35			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
PACKING MATERIALS					
	610 347 4243	CARTON CASE-KB8AC			
	610 340 0273	POLY BAG-PT5EC			
	610 336 8221	CUSHION SPACER -KB3AC			
	610 339 5463	CUSHION -KB3AC			
	655 002 4824	INSTALLATION SHEET KF3AC			
ACCESSORIES					
OWNER'S MANUAL					
	610 343 6456	CD-ROM(PJ NW MANAGER)			
	610 346 5708	CD-ROM,OWNERS MANUAL-KB8AC			
	655 003 3475	SAFETY MANUAL-KG5AC			
	655 003 4731	SETUP INST-KB8AC			
REMOTE CONTROL					
	645 099 3213	ASSY,REMOCON CXZR			
	610 344 9944	RC-BATTERY LID-MXAC			
AC CORD					
△US	945 064 6363	CORD,POWER-3.0MK,US			
△EU	945 054 1155	CORD,POWER-3.0MK			
△UK	945 054 1148	CORD,POWER-3.318MK			
MISCELLANEOUS					
	610 338 0223	STRAP CAP-KB3AC			
	610 336 8405	CARRY BAG-KB3AC			
	610 342 8024	CARRY BAG-KL6A			
	945 073 4855	CABLE,INTERFACE VGA			
	645 093 1642	CABLE,INTERFACE VGA			
SERVICE TOOL					
	610 343 5596	CD-ROM PJ SVC TOOL V420			

Mechanical Parts List

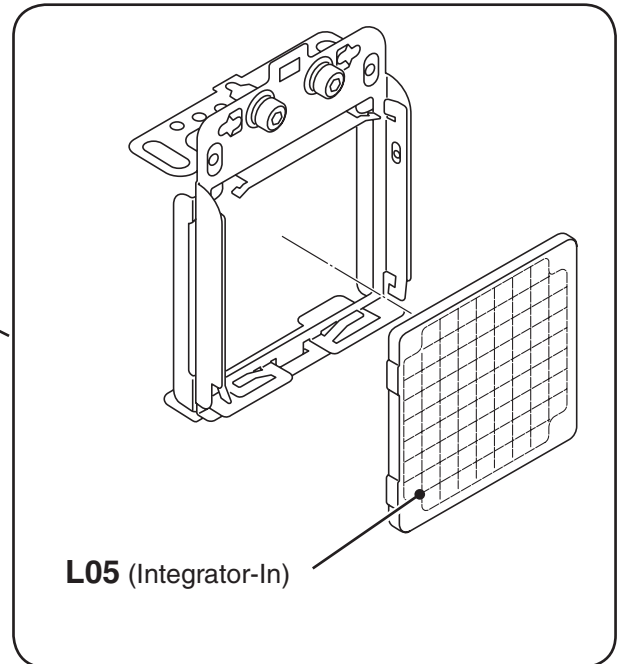
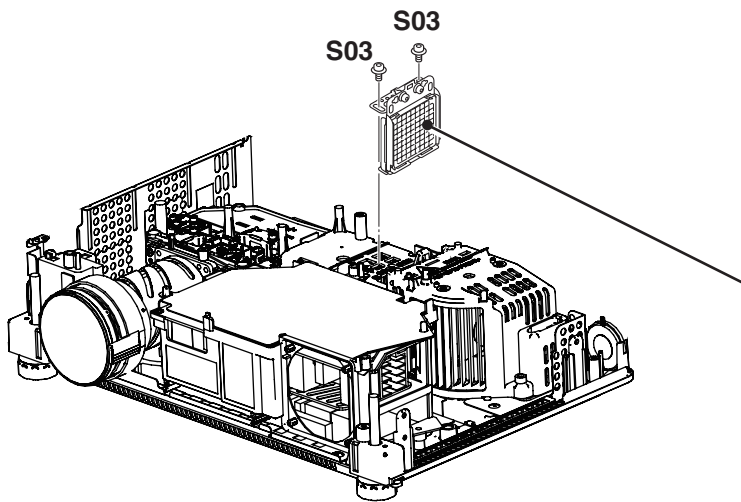
Cabinet Parts Location



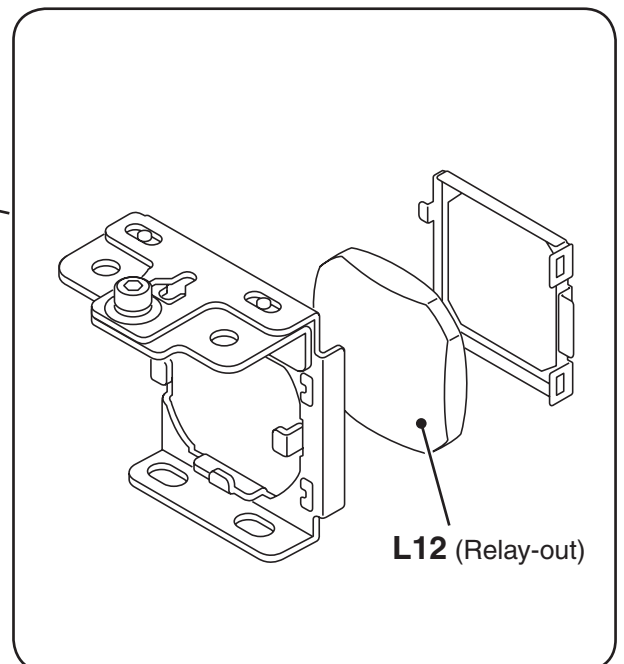
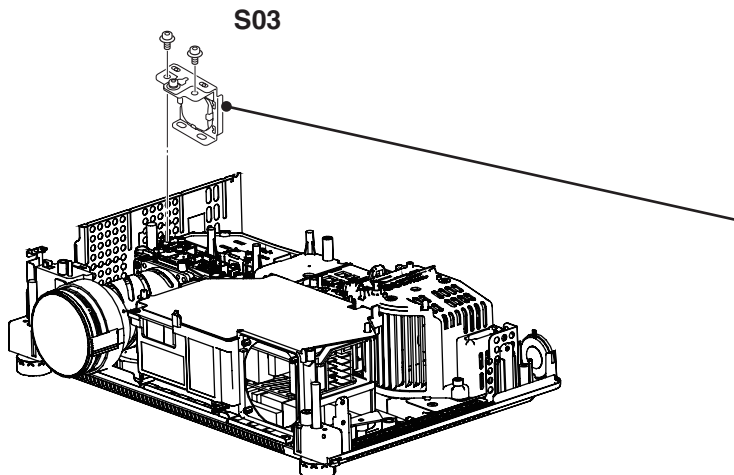
Mechanical Parts List

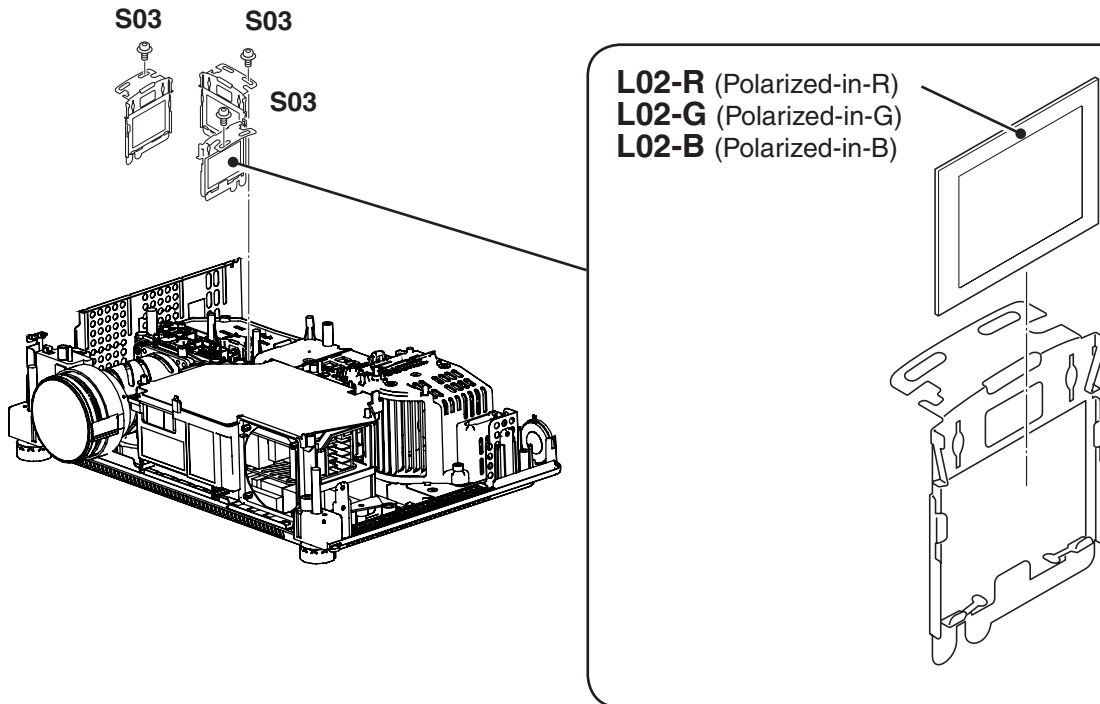
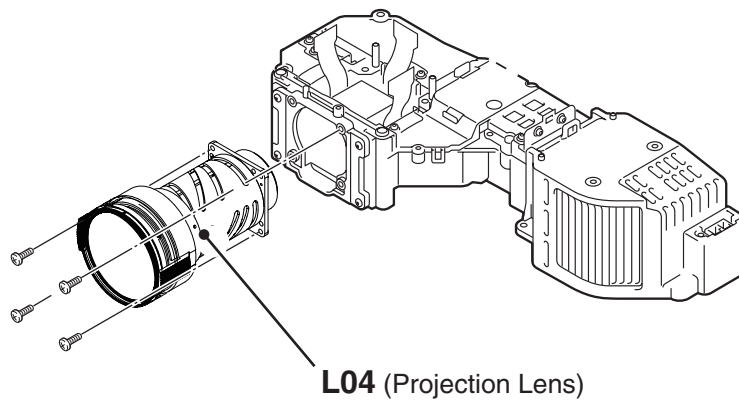
Optical Parts Location

Integrator Lens-In



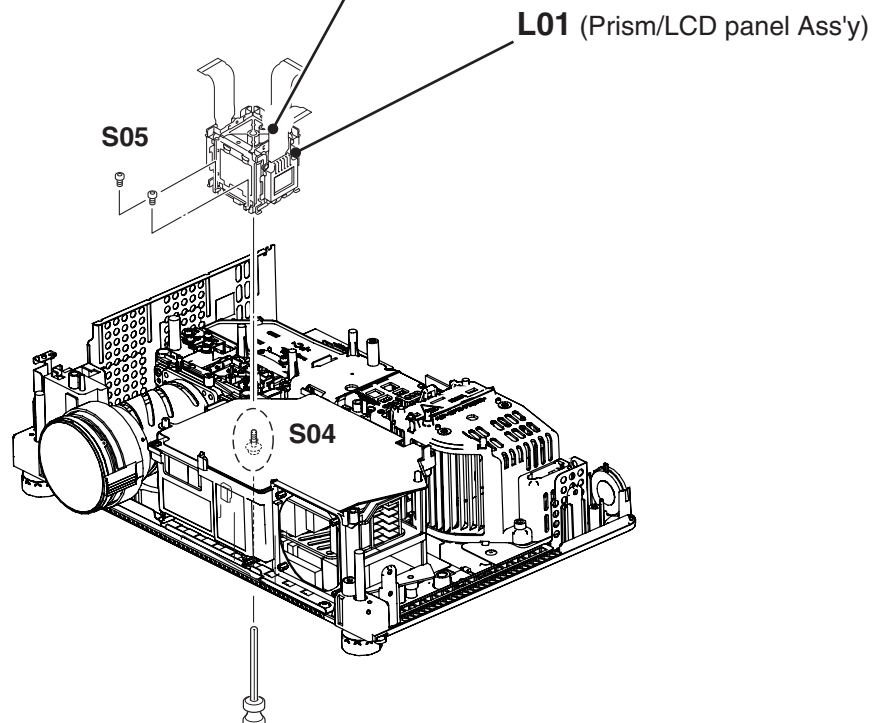
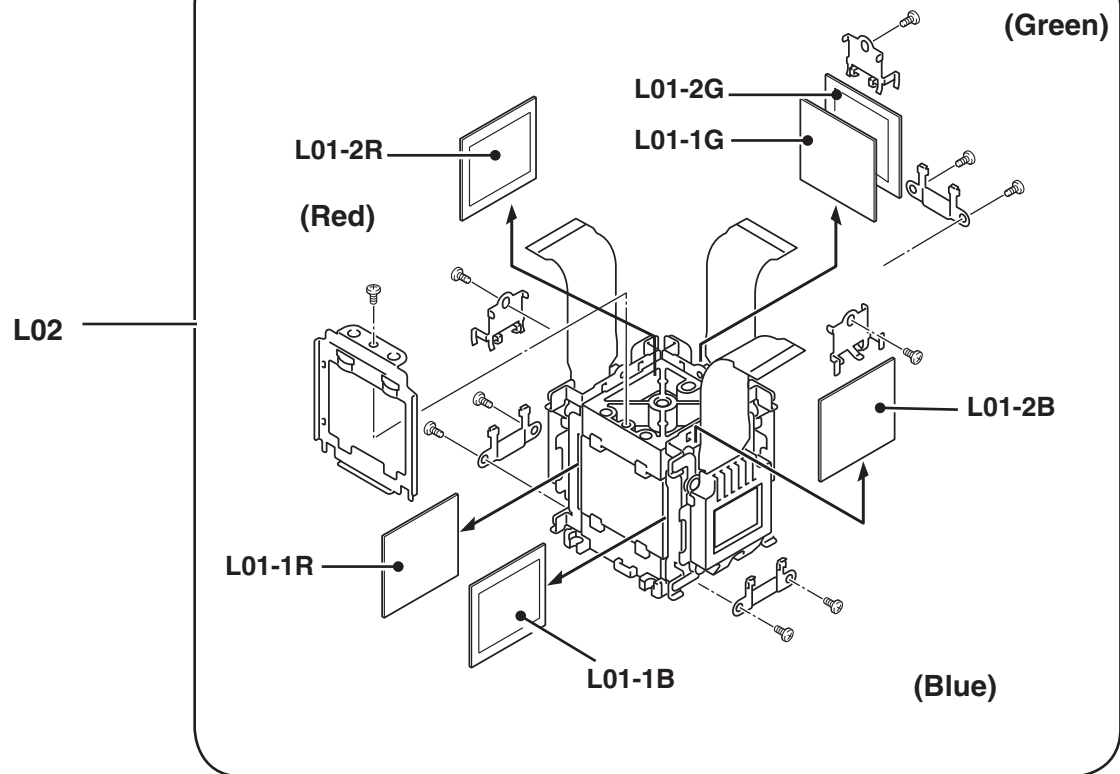
Relay Lens-Out



Mechanical Parts List**Polarized Glass-In****Projection Lens**

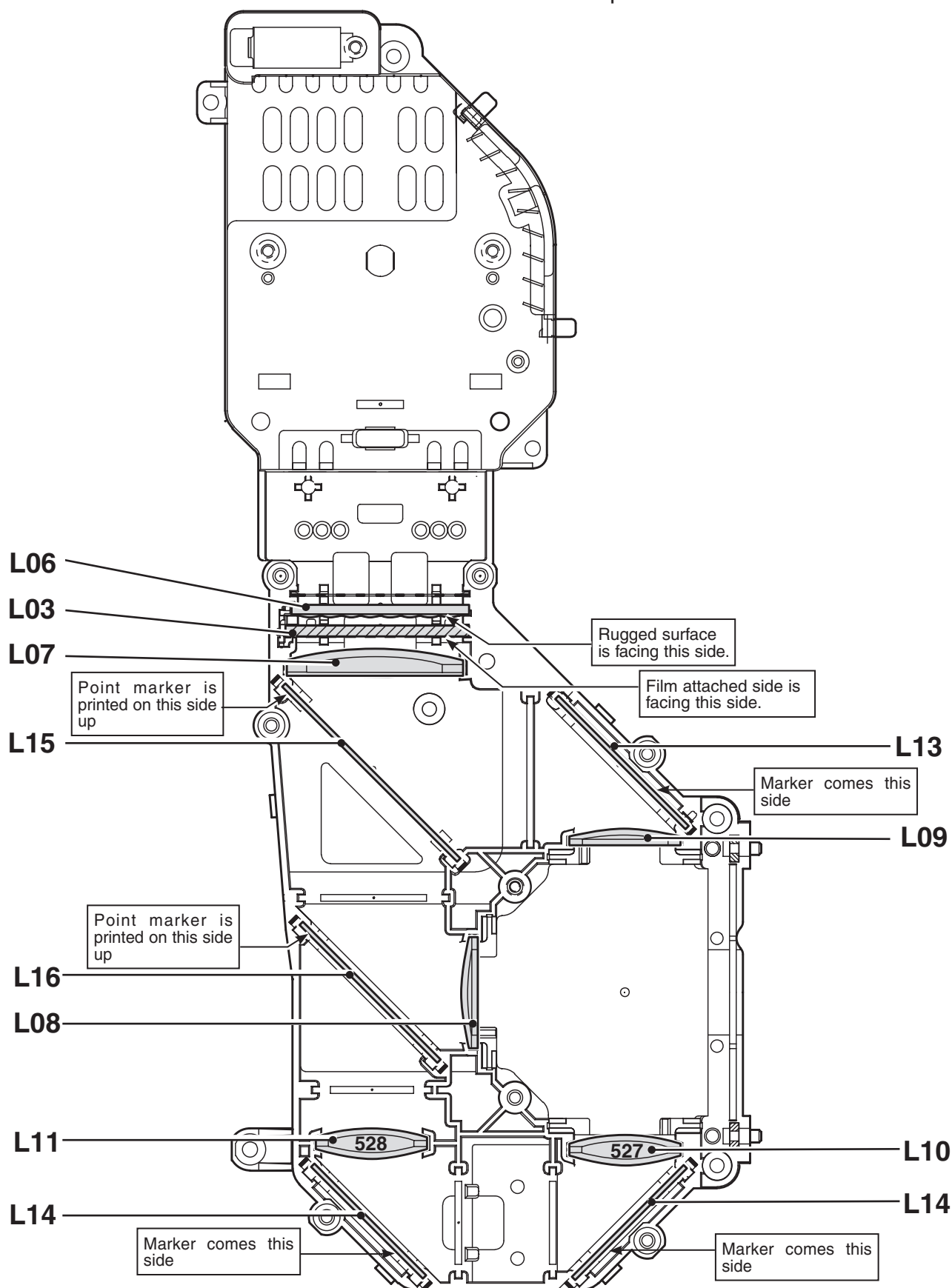
Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List

In the Optical Unit



Mechanical Parts List

Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			L14	945 088 7896	MIRROR(R)
C01	610 331 6413	ASSY,STAND LEG-KM6A	L15	945 088 7902	DICHROIC MIRROR (B)
C02	610 345 9158	BUTTON-KY7AC	L16	945 088 7919	DICHROIC MIRROR (G)
C03	610 346 5579	CABINET TOP-KB8AC			
C04	610 347 5448	CABINET FRONT-KB8AC			
C05	610 346 5586	CABINET BTM-KB8AC			
C06	610 336 2434	CAP LENS-KB3AC			
C07	610 333 8798	COVER ,LP SERVICE-KM6AC			
C08	610 338 3682	FILTER BASE -KF3AC			
C09	610 333 9207	DEC INLAY LED-KL6AC			
C10	910 325 2477	DEC LEG-PT5EC			
C11	910 302 5613	DEC SHEET-M4JA			
C12	610 333 9290	FILTER BASE-KM6AC			
C13	610 347 5639	GRILLE-KB8AC			
C14	945 047 8032	BADGE,SANYO*26.2X5.7L26.0			
CHASSIS PARTS					
M01	610 347 6919	DEC AV SHEET-KB8AC			
M02	610 334 4348	HOLDER POWER PWB BTM-KM6AC			
M03	610 334 5895	HOLDER T SW-KM6AC			
M04	610 346 5609	MOUNTING DUCT BTM-KB8AC			
M05	610 346 5616	MOUNTING DUCT TOP-KB8AC			
M06	610 334 4386	MOUNTING DUCT LP-KM6AC			
M07	610 346 5593	PANEL AV-KB8AC			
M08	610 334 7097	SPACER SHEET#POW T TOP-KM6AC			
	610 343 0348	SPACER SHEET#POW T TOP-KM6AC			
M09	610 334 0067	SPACER SHEET#POWER T-KM6AC			
M10	610 331 1692	OPTICAL BASE BTM-KM6A			
M11	610 331 1715	OPTICAL BASE TOP A-KM6A			
M12	610 331 1722	OPTICAL BASE TOP B-KM6A			
M13	610 347 0542	SPACER SHEET LENS-KY7AC			
SCREWS					
S01	411 179 8801	SCR S-TPG BIN 3X10			
S02	411 077 8606	SCR TPG FLT 3X8			
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5			
S04	312 070 3400	SPECIAL SCREW-3.0X10V			
S05	312 069 7105	SPECIAL SCREW V			
OPTICAL PARTS					
L01	610 348 5584	ASSY PNL/PSM-KB8AC (Including Key NO. L01-1R to L01-2B and LCD Panels)			
L01-1R	645 089 3506	POLARIZED GLASS(OUT/R)			
L01-1G	645 101 1428	POLARIZED GLASS(OUT/G)			
L01-1B	645 089 3520	POLARIZED GLASS(OUT/B)			
L01-2R	645 101 6690	PRE-POLARIZED GLASS(OUT/R)			
L01-2G	645 101 1411	PRE-POLARIZED GLASS(OUT/G)			
L01-2B	645 097 3918	PREPOLARIZED GLASS(OUT/B)			
L02-R	645 089 3476	POLARIZED GLASS(IN/R)			
L02-B	645 089 3490	POLARIZED GLASS(IN/B)			
L02-G	645 101 1435	POLARIZED GLASS(IN/G)			
L03	645 092 9892	PRISM(PBS)			
	645 096 4893	PRISM(PBS)			
L04	645 102 1762	LENS,PROJECTION			
L05	945 088 7797	LENS,INTEGRATOR(IN)			
L06	945 088 7803	LENS,INTEGRATOR(OUT)			
L07	945 088 7827	LENS,CONDENSER(OUT)			
L08	945 088 7834	LENS,CONDENSER(G)			
L09	945 088 7841	LENS,CONDENSER(B)			
L10	945 088 7858	LENS,CONDENSER(R)			
L11	945 088 7865	LENS,RELAY(IN)			
L12	945 088 7872	LENS,RELAY(OUT)			
L13	945 088 7889	MIRROR(B)			



Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-XU106	KB8-XU10600

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KB8-XU10600, model PLC-XU106. File with the service manual No. SM5111145-00

Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading

Example 2000 K K 1000 BG

↑ ↑ ↑ ↑ Characteristic

Example 160 E M 10

↑ ↑ ↑ ↑ Capacitance value
Excepting electric capacitors,
all capacitance values of less
than 1 are expressed in μF
and more than 1 are in pF.
Tolerance
Type
Rated voltage

● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypropylar
B	Ceramic (semiconductor)
G	Metalized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading

Example L2 C1 4R7 K N

↑ ↑ ↑ ↑ Tolerance
Inductance value
Manufacture code
Unique code

Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading

Example 1/2 D J 10K B

↑ ↑ ↑ ↑ Characteristic
Example 6 W K 8.2
↑ ↑ ↑ ↑
Z (Carbon fuse)
B (Non-burnable)

Example 1/2 C K 1M

↑ ↑ ↑ ↑
K indicates in $\text{K}\Omega$
M indicate in $\text{M}\Omega$
Resistance value
Tolerance (see below table)
Material (see below table)
Rated wattage (W)

Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1SS133, 1N4148

● Transistor

(1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

(2) PNP type

Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

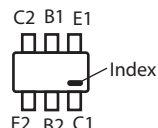
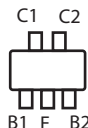
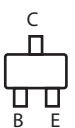
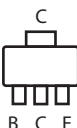
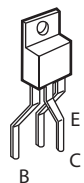
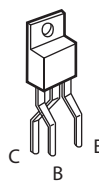
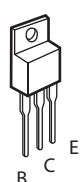
(3) Chip type

Mark	Type number
--	2SA1179N 2SA1037K 2SA1037AK 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	L6, L7 R, S

● Transistor/FET

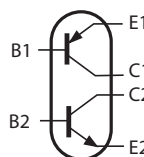
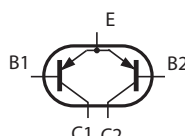
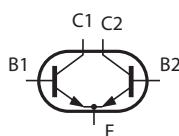
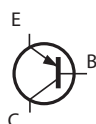
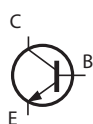


K: Cathode
A: Anode

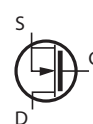
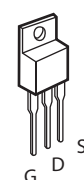


C: Collector
B: Base
E: Emitter

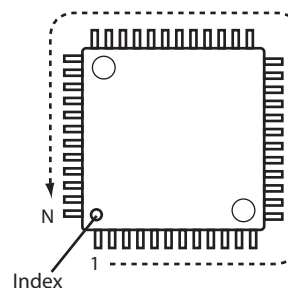
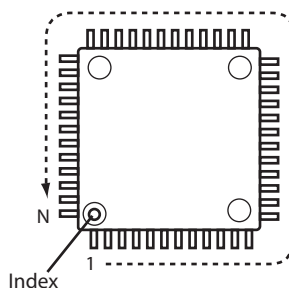
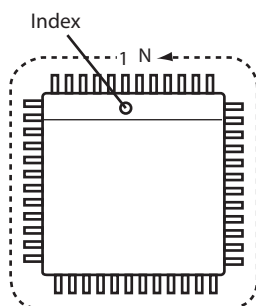
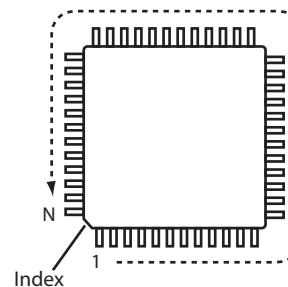
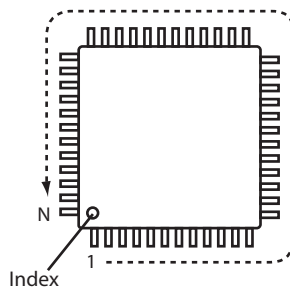
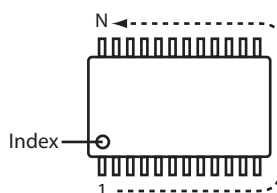
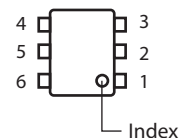
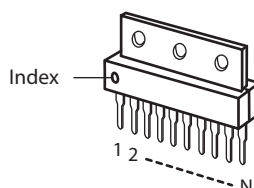
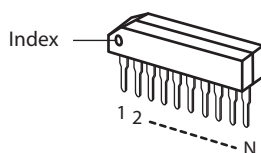
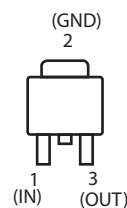
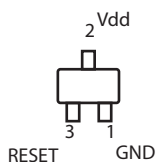
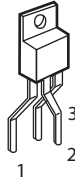
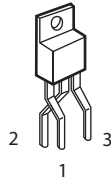
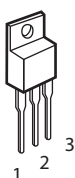
D: Drain
G: Gate
S: Source



FET



- IC



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

LINE FILTER

POWER FACTOR CORRECTION

POWER

LAMP BALLAST

MAIN

CAUTION
Fuse of the specified parts number must be used. Unauthorized substitutions may result in fire or accident.

CAUTION
Components indicated by a mark Δ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident. This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing:
1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

HOT

COLD

AV

S-VIDEO

VIDEO AUDIO_IN

PC AUDIO2_IN

PC AUDIO1_IN

AUDIO_OUT

INTAKE LAMP

EXHAUST SIDE LAMP

EXHAUST SIDE POWER

B-PNL

G-PNL

R-PNL

LAMP COVER SW.

R/C

TEMP

TEMP SENSOR 1 (OUTSIDE)

R LCD PANEL

G LCD PANEL

B LCD PANEL

LP900

METAL HALIDE LAMP 80V-3.75A

A901

SW902

SW901

SW903

SW904

SW905

SW906

SW907

SW908

SW909

SW910

SW911

SW912

SW913

SW914

SW915

SW916

SW917

SW918

SW919

SW920

SW921

SW922

SW923

SW924

SW925

SW926

SW927

SW928

SW929

SW930

SW931

SW932

SW933

SW934

SW935

SW936

SW937

SW938

SW939

SW940

SW941

SW942

SW943

SW944

SW945

SW946

SW947

SW948

SW949

SW950

SW951

SW952

SW953

SW954

SW955

SW956

SW957

SW958

SW959

SW960

SW961

SW962

SW963

SW964

SW965

SW966

SW967

SW968

SW969

SW970

SW971

SW972

SW973

SW974

SW975

SW976

SW977

SW978

SW979

SW980

SW981

SW982

SW983

SW984

SW985

SW986

SW987

SW988

SW989

SW990

SW991

SW992

SW993

SW994

SW995

SW996

SW997

SW998

SW999

SW1000

SW1001

SW1002

SW1003

SW1004

SW1005

SW1006

SW1007

SW1008

SW1009

SW1010

SW1011

SW1012

SW1013

SW1014

SW1015

SW1016

SW1017

SW1018

SW1019

SW1020

SW1021

SW1022

SW1023

SW1024

SW1025

SW1026

SW1027

SW1028

SW1029

SW1030

SW1031

SW1032

SW1033

SW1034

SW1035

SW1036

SW1037

SW1038

SW1039

SW1040

SW1041

SW1042

SW1043

SW1044

SW1045

SW1046

SW1047

SW1048

SW1049

SW1050

SW1051

SW1052

SW1053

SW1054

SW1055

SW1056

SW1057

SW1058

SW1059

SW1060

SW1061

SW1062

SW1063

SW1064

SW1065

SW1066

SW1067

SW1068

SW1069

SW1070

SW1071

SW1072

SW1073

SW1074

SW1075

SW1076

SW1077

SW1078

SW1079

SW1080

SW1081

SW1082

SW1083

SW1084

SW1085

SW1086

SW1087

SW1088

SW1089

SW1090

SW1091

SW1092

SW1093

SW1094

SW1095

SW1096

SW1097

SW1098

SW1099

SW1100

SW1101

SW1102

SW1103

SW1104

SW1105

SW1106

SW1107

SW1108

SW1109

SW1110

SW1111

SW1112

SW1113

SW1114

SW1115

SW1116

SW1117

SW1118

SW1119

SW1120

SW1121

SW1122

SW1123

SW1124

SW1125

SW1126

SW1127

SW1128

SW1129

SW1130

SW1131

SW1132

SW1133

SW1134

SW1135

SW1136

SW1137

SW1138

SW1139

SW1140

SW1141

SW1142

SW1143

SW1144

SW1145

SW1146

SW1147

SW1148

SW1149

SW1150

SW1151

SW1152

SW1153

SW1154

SW1155

SW1156

SW1157

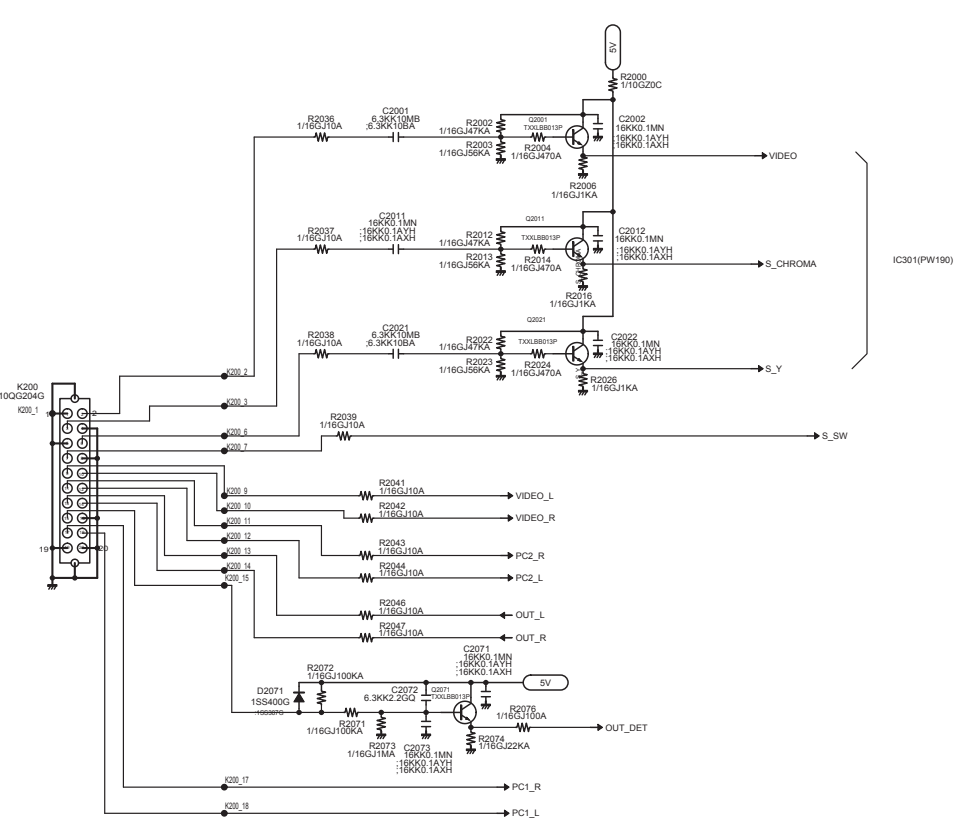
SW1158

<

A
B
C
D
E
F
G
H
I
J
K
L

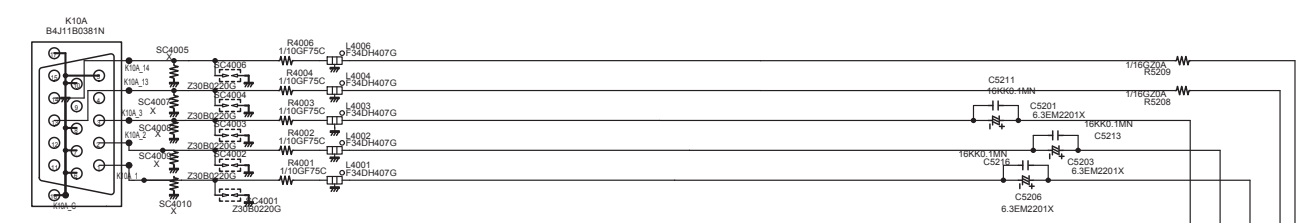
A
B
C
D
E
F
G
H
I
J
K
L

S-VIDEO
VIDEO_IN
PC
AUDIO_IN
AUDIO_OUT

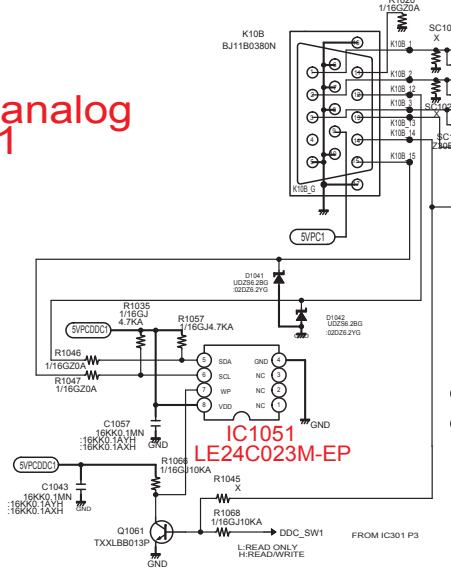


IC201(PW190)

PCanalog
monitor
OUT

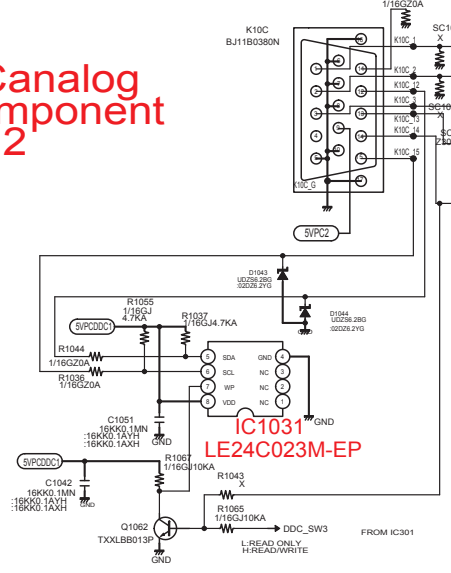


PCanalog
IN 1



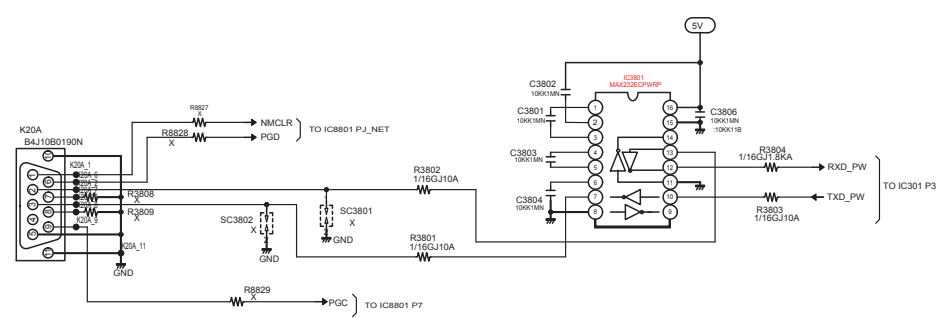
IC1051
LE24C023M-EP

PCanalog
component
IN 2

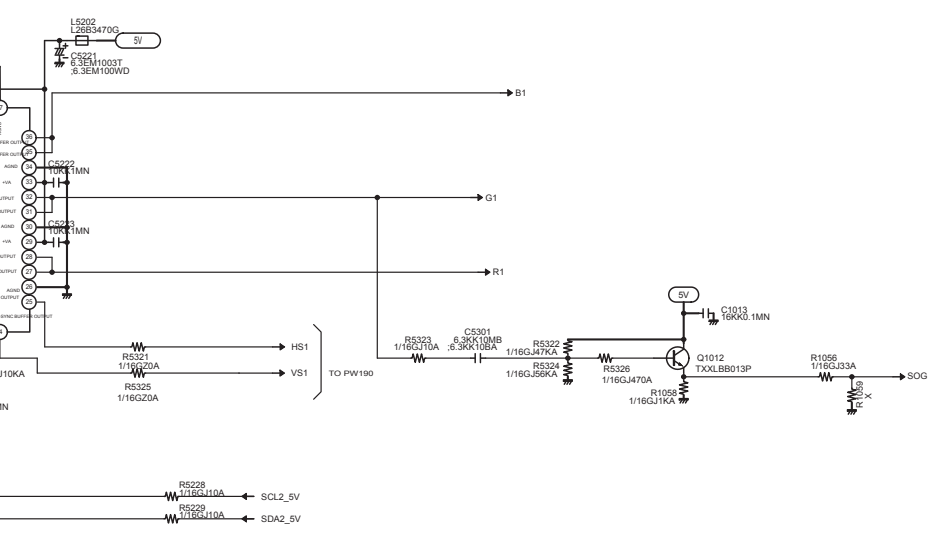


IC1031
LE24C023M-EP

SERVICE
PORT
SERIAL

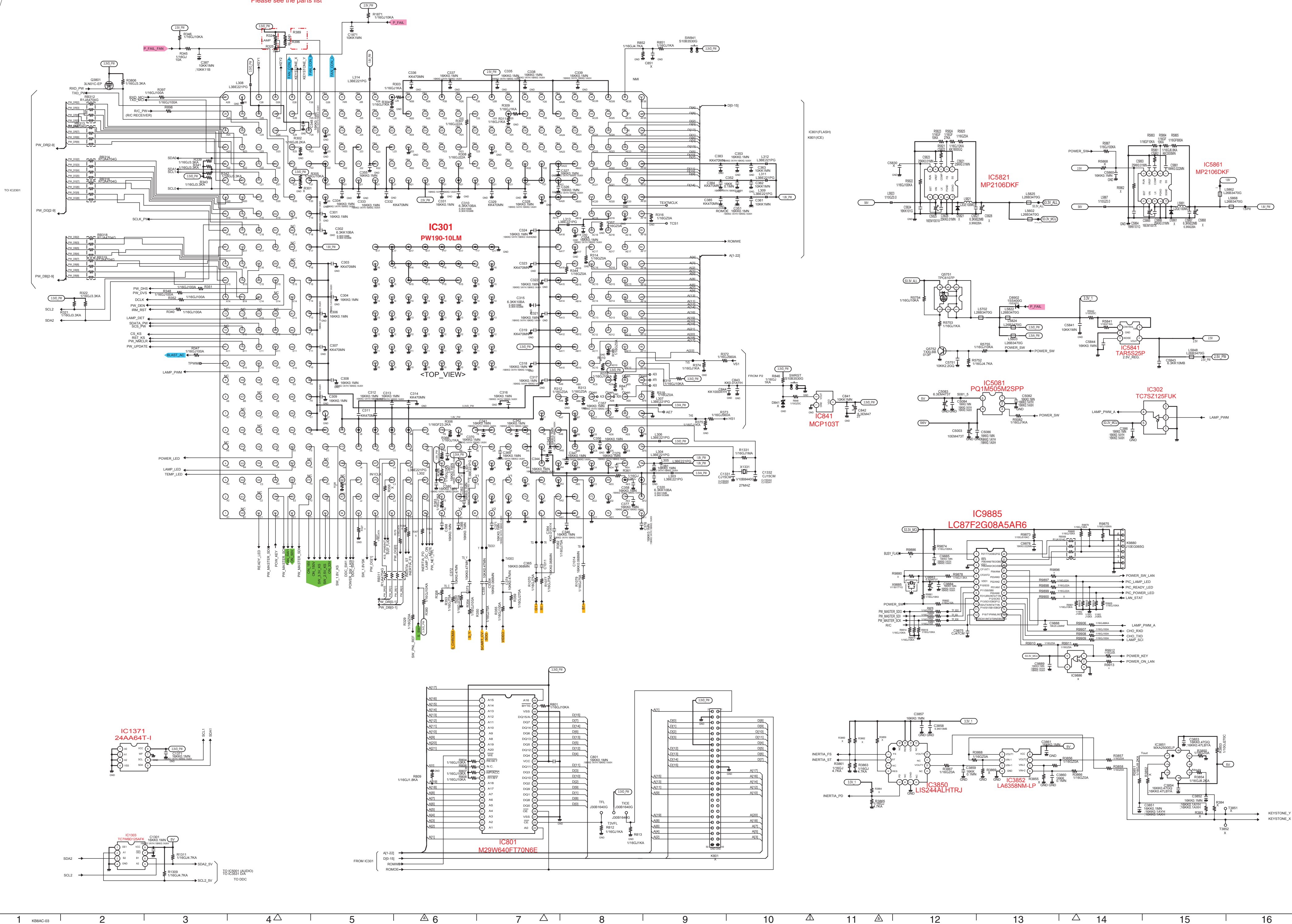


IC5201
TH25DA717HPR



A
B
C
D
E
F
G
H
I
J
K
L

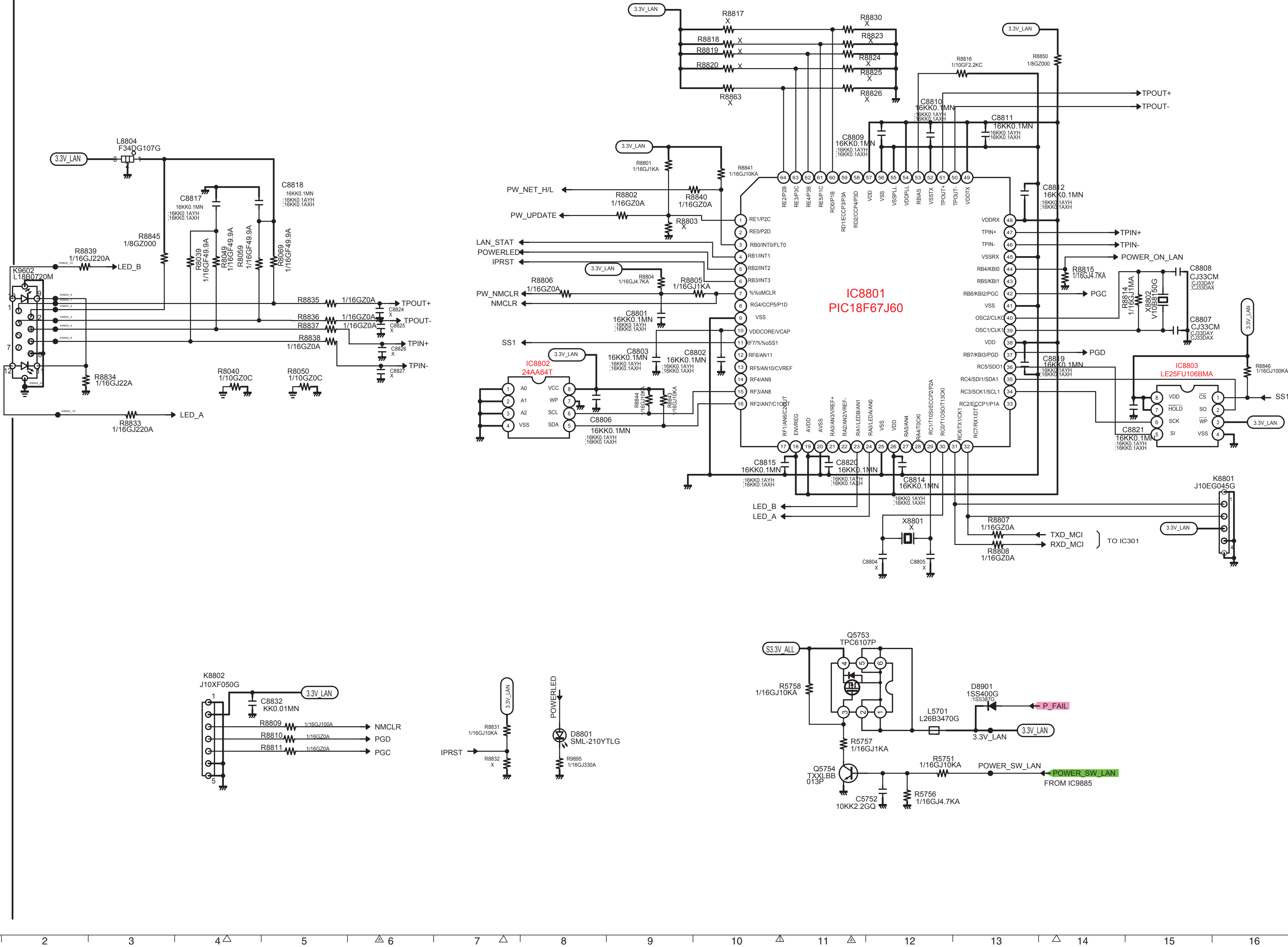
OPTION RESISTER
*Please see the parts list



A
B
C
D
E
F
G
H
I
J
K
L

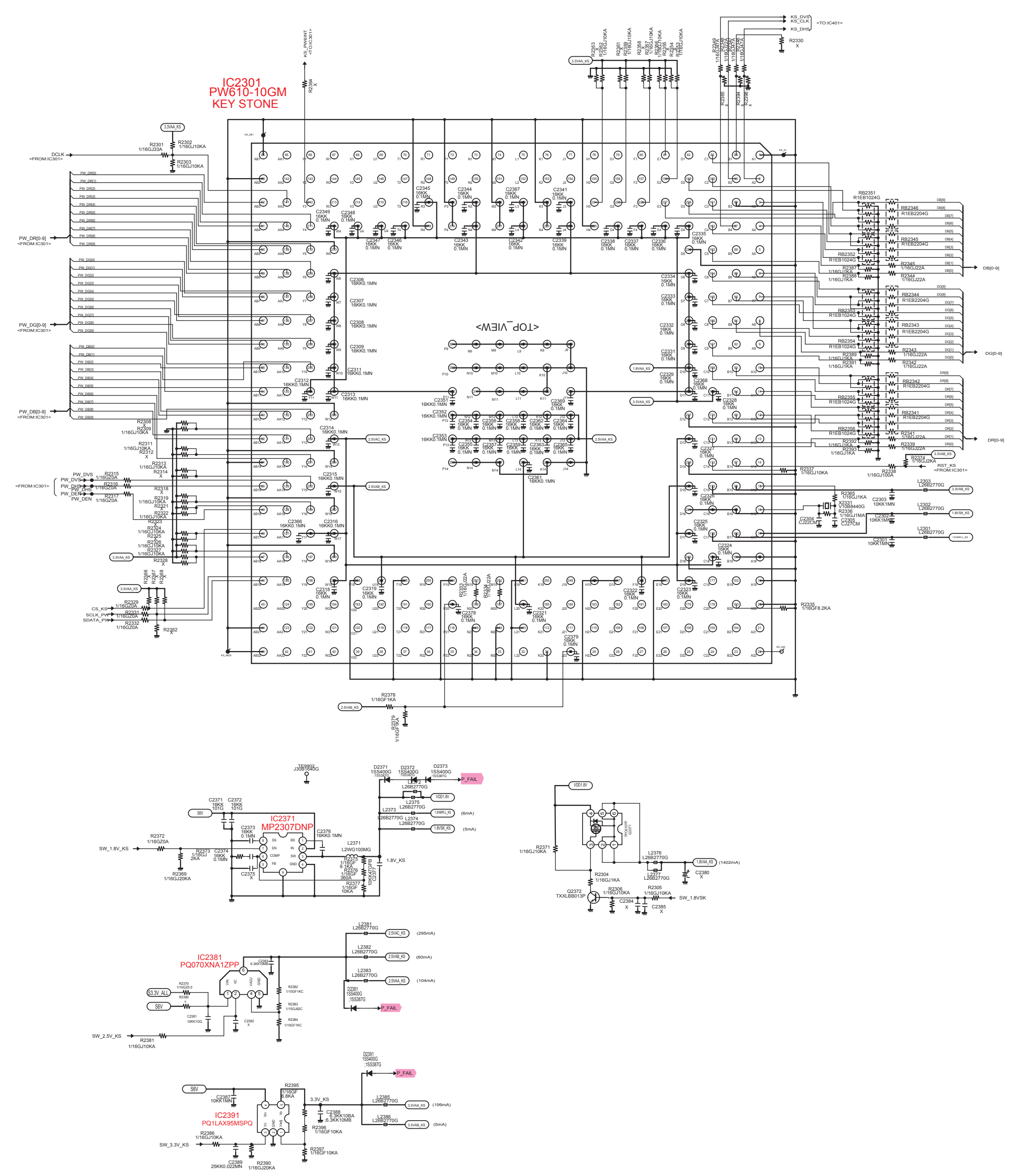
A
B
C
D
E
F
G
H
I
J
K
L

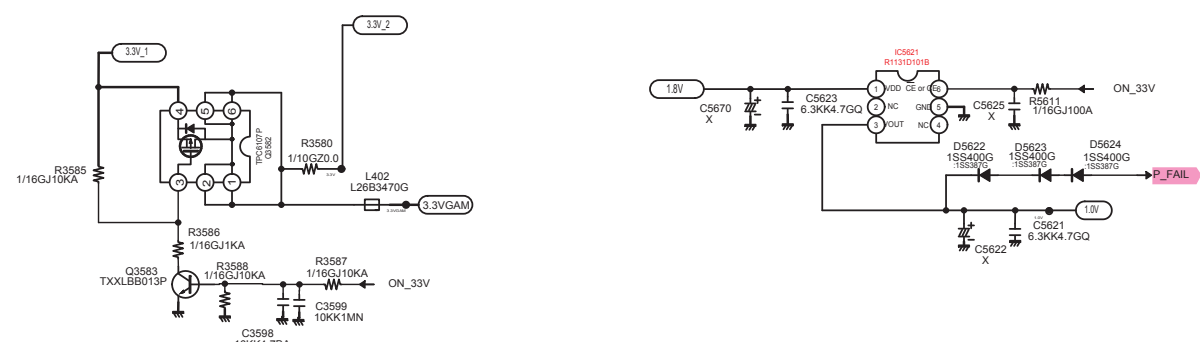
LAN



A
B
C
D
E
F
G
H
I
J
K
L

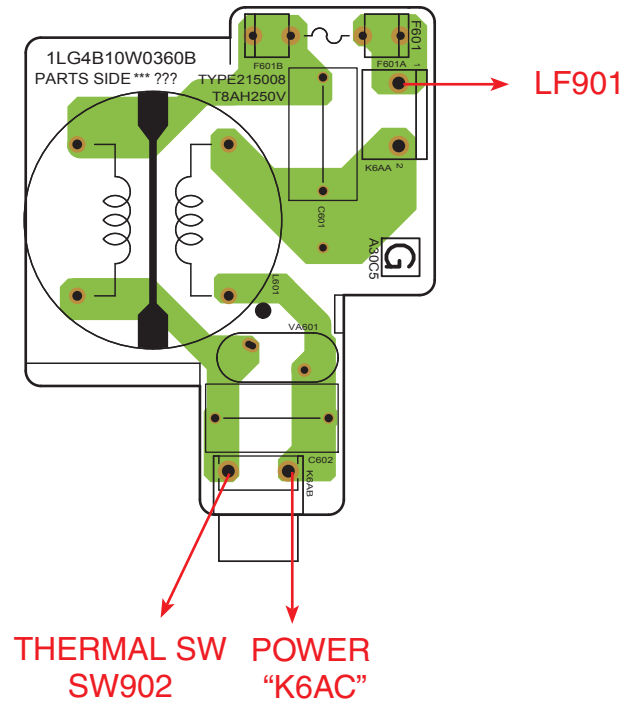
A
B
C
D
E
F
G
H
I
J
K
L



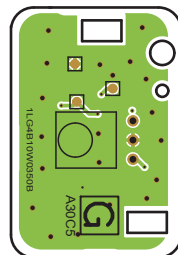


Printed Wiring Board Diagrams

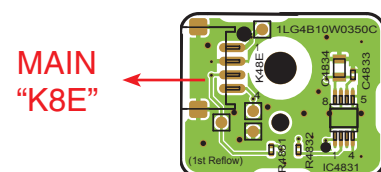
LINE FILTER (SIDE:A)



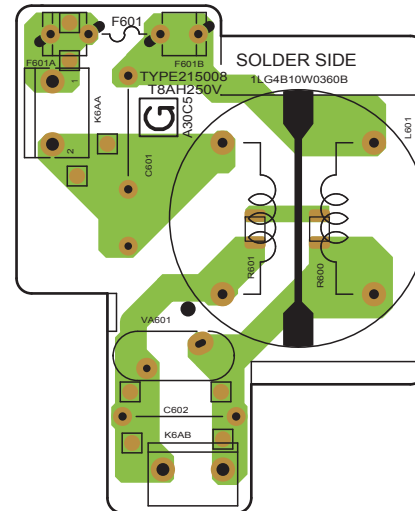
R/C (SIDE:A)



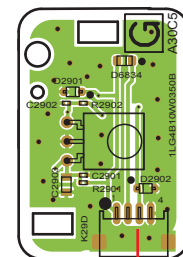
TEMP. (SIDE:A)



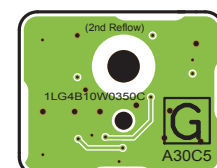
LINE FILTER (SIDE:B)



R/C (SIE:B)



TEMP. (SIDE:B)

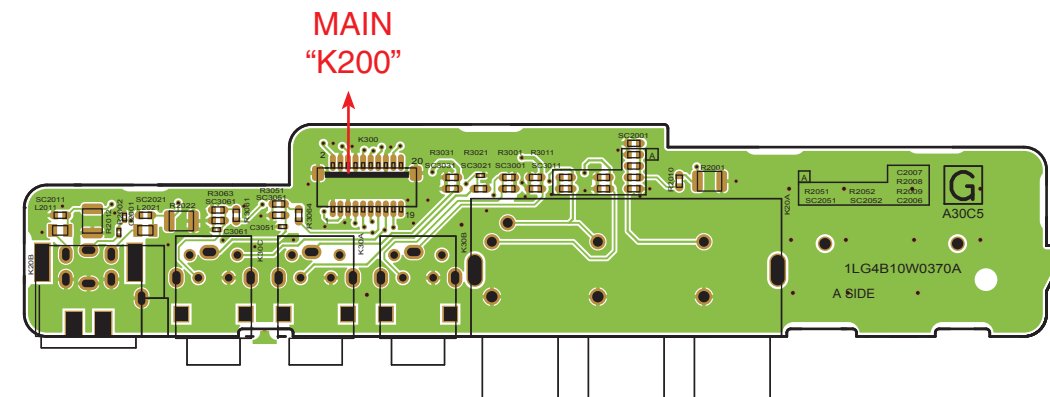
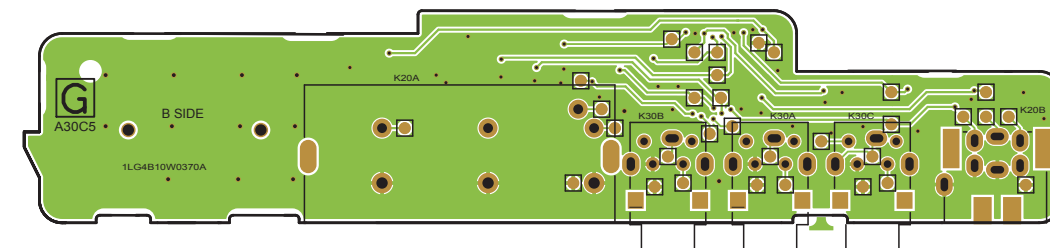


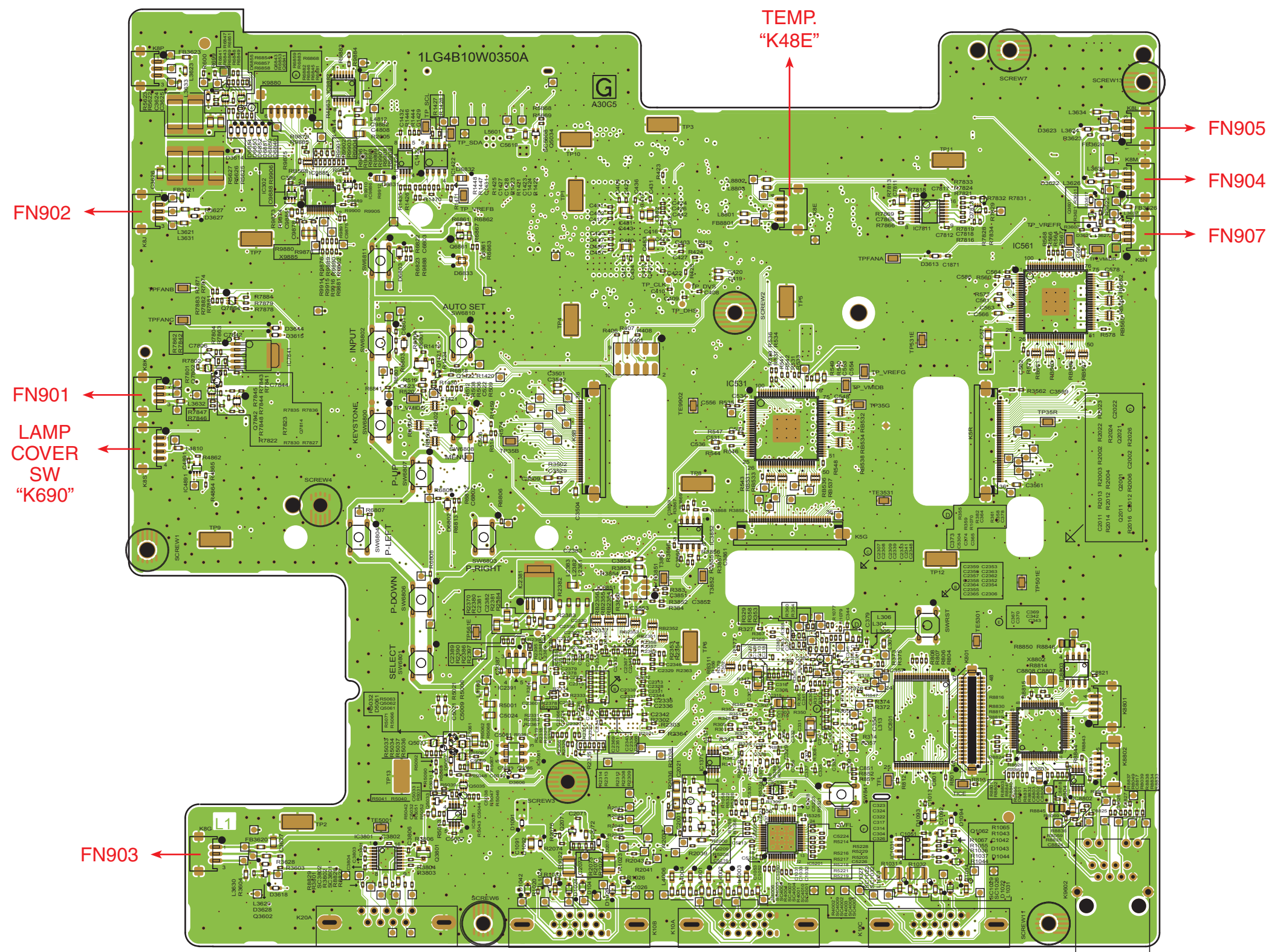
CAUTION

This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

AV (SIDE:A)

**AV (SIE:B)**



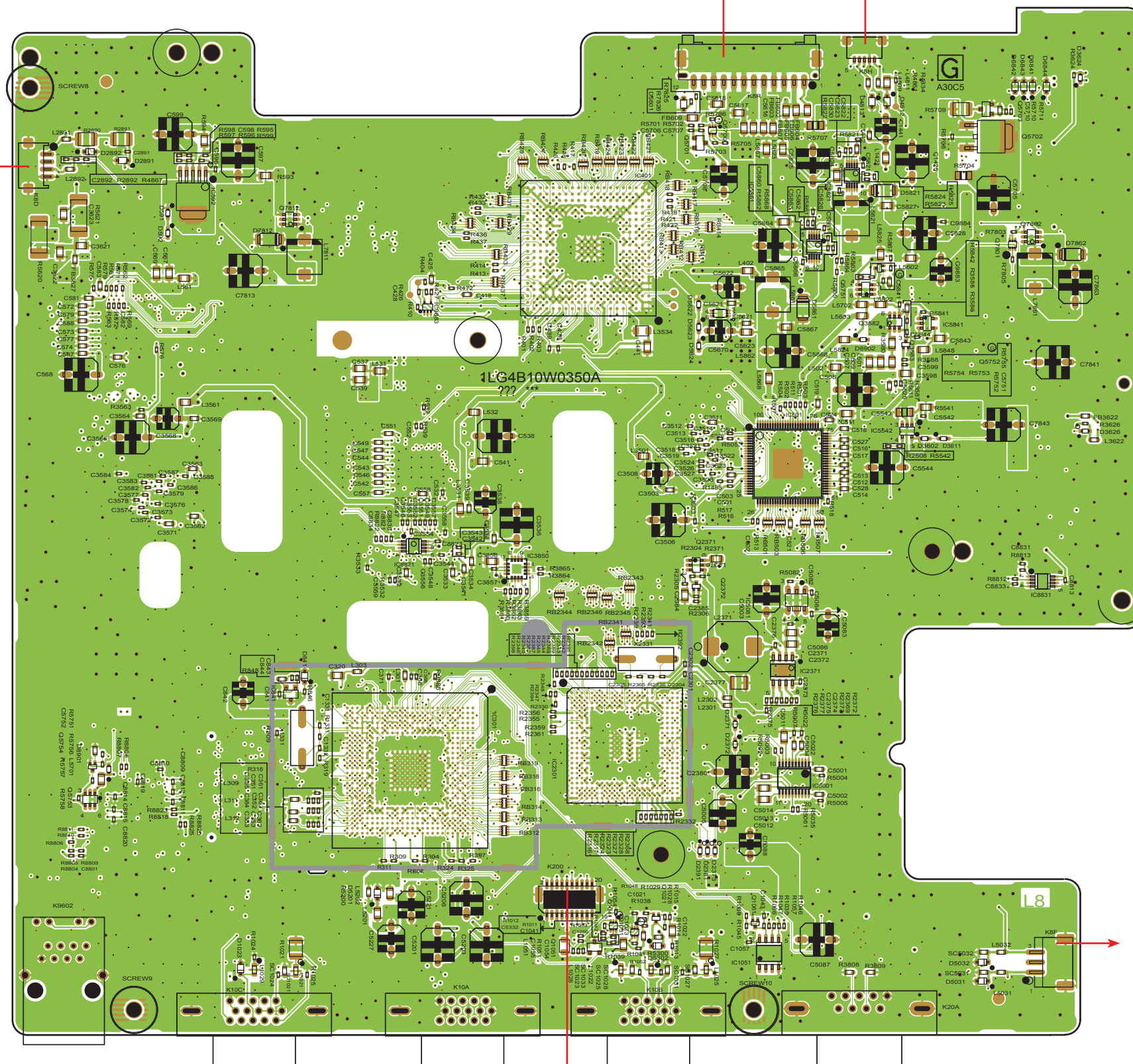
R/C
"K29D"

POWER
"K6R"

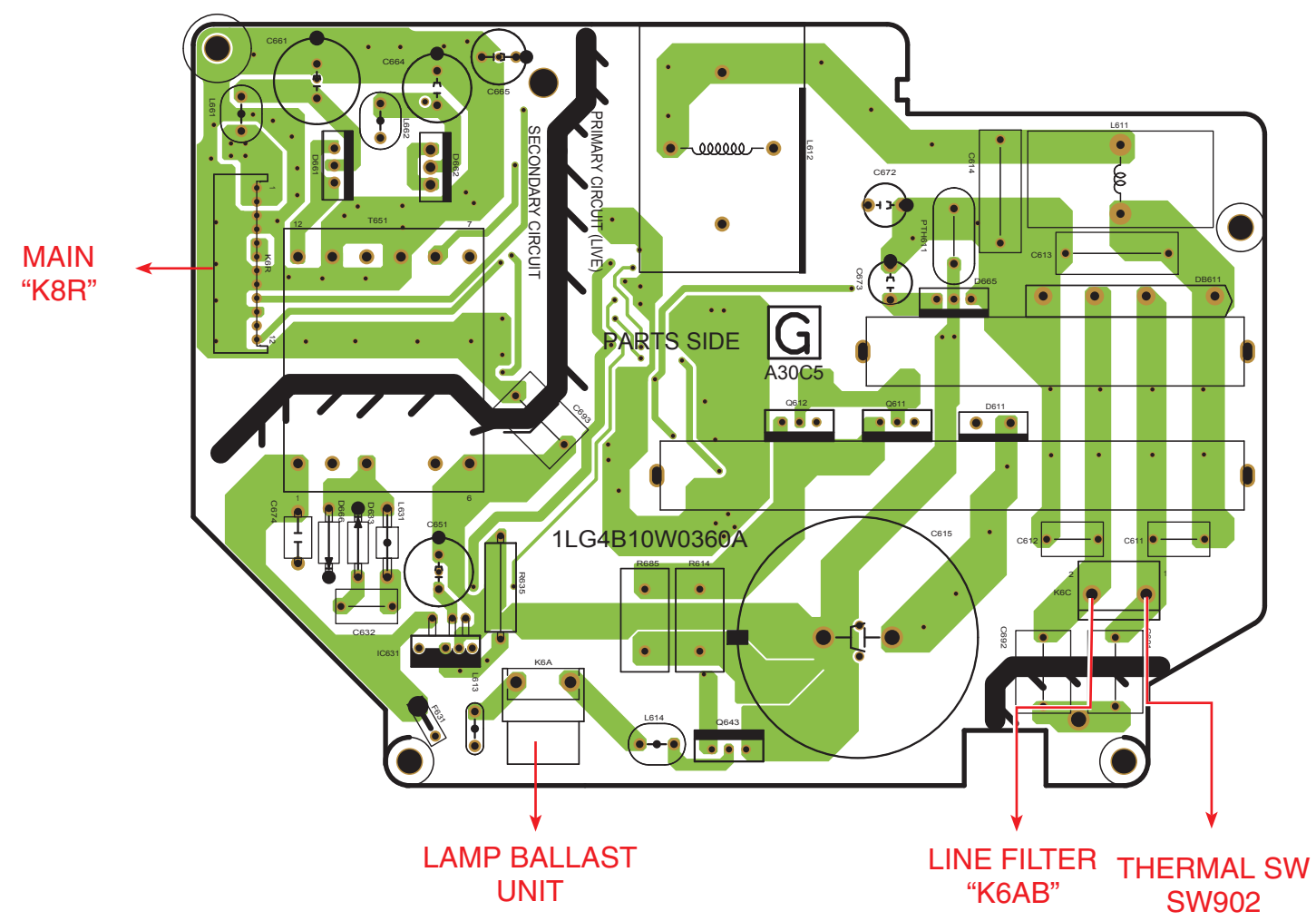
LAMP BALLAST
UNIT

AV
"K300"

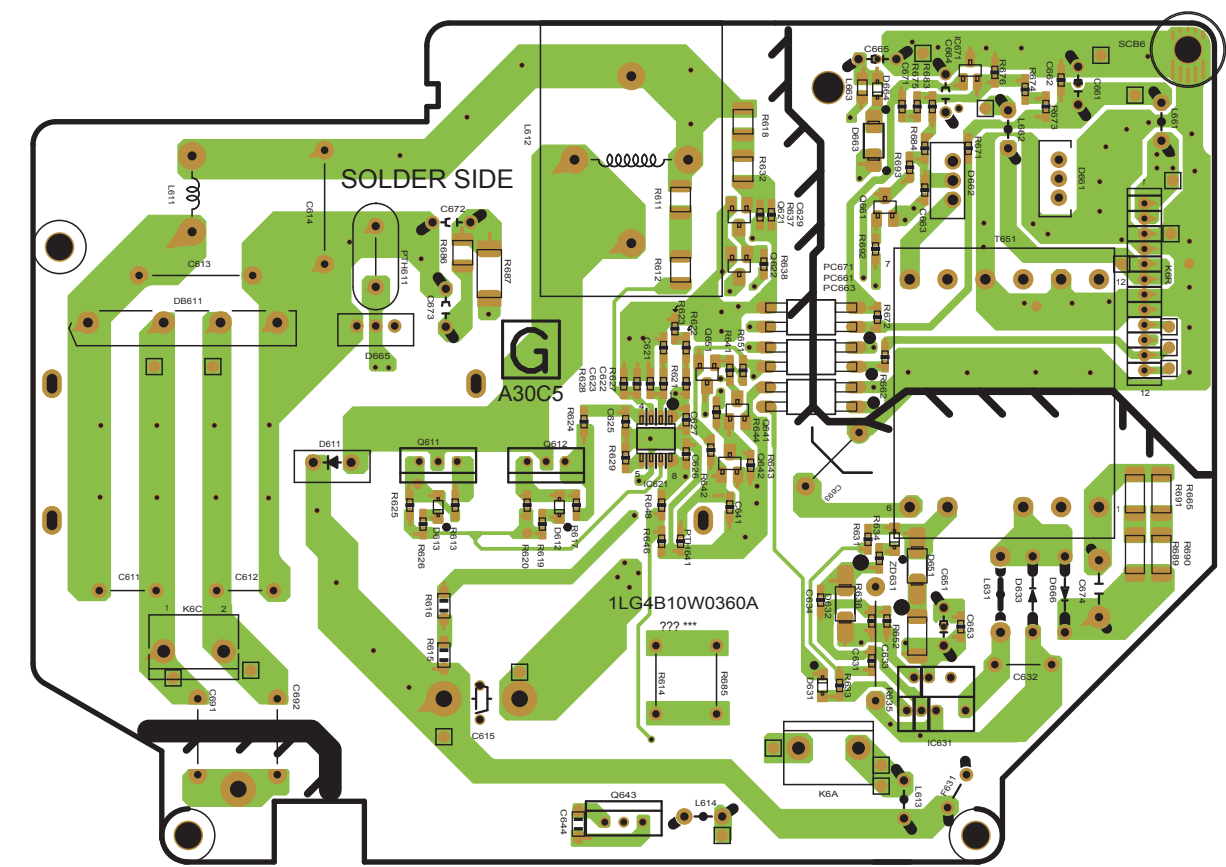
SP901



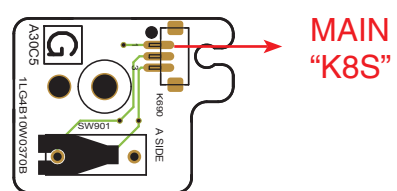
POWER (SIDE:A)



POWER (SIDE:B)



LAMP COVER SW (SIDE:A)



LAMP COVER SW (SIDE:B)

